



BADGER STATE

SMOKE SIGNALS

For Radio Amateurs • By Radio Amateurs

Published Monthly Since 1969 • Our 29th Year

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Kenneth A. Ebner
822 Wauona Trail
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Another Assembly bill pops up

At press time, Skip Voros, WD9HAS, alerted us to another bill, AB 754, which would prohibit use of cellular and similar communications devices while in a vehicle in motion. The definition of the specific devices is in the Code of Federal Regulations, Volume 47 CFR, part 153 (27). A four-hour search session on the Web did find Volume 47, part 153, but no (27). (The URL I found is <http://www.law.cornell.edu/uscode/47/153>). The proposal seems to apply solely to cell and PCS telecommunications devices. An exemption is built in for police and emergency services. The bill was introduced by Reps. Baumgart and Ainsworth, by request of Mr. Jerome Den Boer. An aide in Baumgart's office says it is dead for this session, which ends before you get this issue.

Regional Skywarn Operations for 1998

By Skip Voros, WD9HAS and Dean Schober, KB9OFI

The 1998 severe weather season is rapidly approaching, and once again the National Weather Service (NWS) will need the assistance of Amateur Radio operators and repeaters for SKYWARN (Severe weather Identification, Evaluation, and Reporting) operations. The Badger state is served by Weather Service offices located in Milwaukee/Sullivan, Green Bay, La Crosse, Duluth and Minneapolis. Each of these offices conducts yearly spotter training programs which are coordinated by local emergency government managers and other emergency response agencies.



Many of you have attended these programs in the past and have participated in organized spotter nets on the various repeaters throughout the region. However, if you are a new licensee or are interested in being a severe weather spotter for your area, now is the time to attend the training program as there is always a need for more spotters. Even the veteran spotter should get refresher training each year. Spotter training dates and education are available from the NWS InterNet sites listed on the Milwaukee Area Skywarn Association Web page:

www.execpc.com/~svoros

Amateur Radio storm spotter reports are a critical and essential part of the NWS severe weather programs. The fact is that no amount of remote sensing technology i.e.; Doppler radar, satellite images, meso-scale and smart weather networks, can take the place of well trained storm spotters offering real time ground-truth observations. Amateur Radio operators are ideal candidates for gathering and relaying ground truth weather reports because the amateur community already has an extensive network of voice and digital repeater systems, and a history of established and disciplined radio operating procedures.

The National Weather Service has demonstrated its confidence in the emer-

gency communications capability and organizational skills of amateur operators by signing a "Memorandum Of Understanding" a few years back, pledging mutual support and cooperation between the NWS and the ARRL. It has become commonplace for an Amateur Radio station to be present at most forecast offices.

While some of the weather reports we hear on the amateur bands may sound unimportant, each report helps the NWS meteorologist determine the nature and potential hazards of a storm system. Ground truth reports help meteorologists determine if a storm system is intensifying, in a steady state, or weakening. Additionally, with each new severe weather episode, we can test and fine tune our operational readiness, emergency communication skills, and justify our existence on the shrinking ham bands.

In November of 1997 Wisconsin Section Emergency Coordinator, John Leekley (WB9SMM) asked for volunteers to form what became known as the "Sullivan Committee", with the goal of improving severe weather reporting in South-central and Southeastern Wisconsin. Our committee was comprised of Skywarn Net Control operators and area repeater representatives. At the initial meeting representatives of the NWS Sullivan office presented a "wish list" of ground truth weather information they would like to receive from the (ham) spotter community. The new list contains additional information and revised reporting elements, when compared to lists of past years.

The Sullivan Committee was tasked with establishing a format to provide that information in an organized, time-sensitive, and professional manner. The "wish list" of information was adopted as a uniform "Reporting Criteria" for all nets within the area, and the "Reporting Procedures", which had been used on many local Skywarn nets since their inception in 1989, was also made a uniform procedure from net to net. Both the reporting criteria and reporting procedures are detailed below.

The committee also evaluated a list of

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W9IXG knows his place



Don Michalski, W9IXG, Madison, above, really does know his place. It is on the University of Wisconsin Campus, and it is called "The Space Place." He's been employed by the Space Astronomy Lab at the university since 1966.

He is currently the Associate Director of the UW Space Astronomy Laboratory, charged with the responsibility of implementing the Director's advanced space astronomy research and development programs. Don provides the project management within the laboratory, and acts as liaison with NASA project management at Kennedy, Marshall, Wallops, and Goddard Space Flight Centers. He was the Program Manager and designer for the Astro WUPPE payload, which was flown successfully on two shuttle missions.

He's also been the designer of numerous sounding rocket payloads, including the Orbiting Astronomical Observatory (OAO), WUPPE (Wisconsin Ultraviolet Photo-Polarimeter Experiment (mentioned above), ground-based instrumentation for Washburn Observatory and WIYN telescope.

Don is President of the UW Space Place on campus. He belongs to several Madison Amateur Radio Clubs, including the Four Lakes Amateur Radio Club. He serves on the FLARC Board, and is Chairman of the FLARC Sesquicentennial Amateur Radio station operation in May. His unique enthusiasm for his work is evident, and he carries that same enthusiasm with him as he helps FLARC prepare for a large special event operation.

In his spare time, he likes weekend bicycle touring, bowling, and playing pool on his table at home.

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Edited by Kenneth A. Ebner, K9EN, 822 Wauona Trail, Portage, WI 53901 • kebner@palacenet.net

Swapfests and Other Social Events

TUESDAY, FEBRUARY 24, 1998. Red Cedar Repeater Association Auction, American Legion Post 53, 634 Water Street, Eau Claire, WI. Contact Steve Hart, KA9OMC, E616 810th Ave., Knapp, WI 54749. (715) 665-2374

SUNDAY, MARCH 8, 1998. SEWFARS Swapfest, Waukesha County Expo Center, Waukesha, WI. Contact: SEWFARS Inc., PO Box 102, Delafield, WI 53018. (414) 358-1003. <http://www.execcp.com/~mjadams/SEWFARS.html>

SATURDAY, MARCH 14, 1998. The Milwaukee School of Engineering ARC swapfest will be held at the MSOE Student Life and Campus Center Auditorium, 1025 N. Broadway, Milwaukee, WI from 8:00 a.m. to 2:00 p.m. Contact: MSOE ARC, MSOE CC-346, 1025 N Broadway, Milwaukee, WI. Web Page: www.msoe.edu/st_orgs/w9thx e-mail: serrew@msoe.edu

SUNDAY, MARCH 15, 1998. Tri County ARC Hamfest 1998, Jefferson County Fairgrounds, Jefferson WI. Contact TCARC, 213 Frederick St., Fort Atkinson, WI 53538 (920) 563-6381 (evenings).

FRIDAY & SATURDAY, APRIL 3 & 4, 1998. Amateur Electronic Supply Superfest. Contact: Ray Grenier, K9KHW, (414) 358-4088, rayk9khw@aol.com (see ad elsewhere this issue for full details.)

SUNDAY, APRIL 5, 1998. Madison Swapfest. NEW LOCATION - John Q Hammons Trade Center. Lower Prices. Free parking. Contact: MARA, PO Box 8890, Madison, WI 53708-8890. (608) 245-8890.

SATURDAY, APRIL 25, 1998. 21st Rochester Minnesota Hamfest, Graham Arena East, Olmsted County Fairgrounds, Rochester MN. Contact: N0HZN, 4552 5th St. NW, Rochester, MN 55901. (507) 285-6522. e-mail n0hzn@aol.com. Also on the web at <http://members.aol.com/rarchams>.

SATURDAY, MAY 2, 1998. Twentieth Annual Cedarburg Swapfest. Held at the Circle-B Recreation Center, Highway 60 and County I (located 20 miles north of Milwaukee, west of Grafton). Contact: Ozaukee Radio Club, W58 N985 Essex Drive, Cedarburg, WI 53012-1439. (414) 377-2784 or (414) 284-3271.

SATURDAY, MAY 9, 1998. Lakeshore Hamfest and Computer Swapfest. Manitowoc County Expo, intersection of Hwys 42-151 and I-43 on City Hwy. R, Manitowoc, WI. Contact: ManCoRad Radio Club, P.O. Box, 204, Manitowoc, WI 54221-0204. Glen, AA9BT (920) 684-7096 or Red, N9GHE, (920) 684-9097

SUNDAY, JUNE 7, 1998. 21st annual Central Wisconsin Radio Amateurs Swapfest and Auction, U.S. Army Reserve Center, Junction City, WI. Contact: John Feltz, W9JN, 973 E First St., Junction City, WI 54443-9614. (715) 457-2506. e-mail jfw9jn@tzn.net

SATURDAY JULY 11, 1998. Eau Claire ARC 15th annual Hamfest & Computer Expo., Eau Claire County Exposition Center, Eau Claire WI. Doors open at 8:00 a.m. Advance setup available. VE exams. Contact: Jim Staatz, WB9RBP, (715) 838-9108 wb9rbp@aol.com or Carol Ceraso, N9UTA, (715) 723-9205 ceraz@execcp.com ECARC, PO Box 1867, Eau Claire, WI 54702-1867.

SATURDAY, JULY 11, 1998. South Milwaukee Amateur Radio Club Swapfest, American Legion Park, Shepard Avenue, South Milwaukee, WI. Contact South Milwaukee ARC, P.O. Box 102, South Milwaukee, WI 53172. (414) 762-3235.

SUNDAY, AUGUST 2, 1998. The Marshfield Area Radio Club will be holding their 8th annual picnic in the park, Hamnic at Wildwood Park. Gather around noon. Bring a dish to pass. Contact: Christopher Stron, KB9NMH or Guy Boucher guyboucher@tzn.net

SATURDAY, AUGUST 8, 1998. Circus City Swapfest, Sauk County Fairgrounds, Baraboo WI. Contact: Steve Schulze, N9UDO, (608) 356-2313/356-4777 or Bill Klinkner, N9KXX, (608) 643-6908/643-6453 <http://www.thelorax.com/~sschulze/hamfest.htm>

SATURDAY & SUNDAY, SEPTEMBER 19 & 20, 1998. Peoria Area ARC SUPERFEST, Exposition Gardens, Peoria IL. Contact: Superfest '98, P.O. Box 3508, Peoria IL 61616-3508.

See also the back page and flyer ads for additional information on many of these events.

Let us know of your dates as soon as you know them. We will list them and perhaps help avoid conflicts with other events.

As a service to our readers, this section of Badger State Smoke Signals is available without charge to list your upcoming Swapfest, Hamfest, dinner, picnic, party or other event of interest to Radio Amateurs in Wisconsin and nearby areas. Send information on your event to Kenneth A. Ebner, K9EN 822

Wauona Trail, Portage, WI 53901. In addition, space is available at attractive rates on our advertising pages. For information on rates and requirements for our advertising pages, please contact K9ZZ or K9EN



CLUB MEETINGS

Due to space limitations we cannot always carry the full listing of Wisconsin and area club meetings. Please save the following listings for your future reference. We hope to have the full listing at least three times a year, and will carry any changes or additions between full listings.

ARROWHEAD RADIO AMATEUR CLUB, INC. (Superior, WI)

The monthly meeting of the ARAC is held on the second Tuesday of the month at the WITC Conference Center, 600 N. 21st Street, Superior, Wisconsin, at 7:30 p.m. Board meetings are held prior to the regular meeting.

BADGER AMATEUR RADIO SOCIETY (W9YT - U. W. - MADISON)

Monthly while school in session - 2nd Tue. - 5:30 p.m. - B-265G, Electrical Engineering Bldg. For more information call (608) 262-1142.

CENTRAL WISCONSIN RADIO AMATEURS, LTD. (STEVENS POINT)

Second Wed.

EAU CLAIRE AMATEUR RADIO CLUB

2nd Tue. - 7:30 p.m. - Parks and Recreation Bldg., Oxford and 1st Streets, Eau Claire. Hams, guests welcome. Travelers welcome on wide area club repeater K9UXP, 146.31/91.

FALLS AMATEUR RADIO CLUB, INC.

The Falls Amateur Radio Club, Inc. meets the last Wednesday of the month at the Bank One building in Germantown, WI at Pilgrim and Mequon Roads. The doors open at 7:00 p.m. and the meeting will begin at 7:30 p.m. **!!GUESTS ARE WELCOME!!**

FOUR LAKES AMATEUR RADIO CLUB (MADISON WI)

First and third Tues - 7:30 p.m. - Red Cross Bldg., 4860 Sheboygan Ave., room "C" downstairs. It is the new building west of the Hill Farms State Office building. The meetings start promptly at 7:30 pm.

FOX CITIES AMATEUR RADIO CLUB

Third Mon - 7:00 p.m. - Madison Junior High School, 2020 South Carpenter Street, Appleton, WI. Info: Chad (414) 993-0485.

GREATER MILWAUKEE DX ASSOCIATION

Fourth Monday of the month at 7:30 p.m. Contact any GMDX member or Gary Schwartz, K9GS, (414) 363-4439, garyk9gs@solaria.sol.net. K9GS@WA9KEC.WI.USA.NOAM. Packet cluster: NB9C, for meeting location

GREEN BAY MIKE AND KEY CLUB

Second Thur. 7:30 pm - Media Services area of the J. M. Science Building at St. Norbert College in DePere

GREEN FOX AMATEUR RADIO CLUB Third Mon.

7:30 p.m. - Green Lake Town Hall, int. of county hwy's K and N.

KETTLE MORAINES RADIO AMATEURS

Second Fri., 7:30 p.m. at the Waukesha County Technical College, Campus Science Building, Room 102. Talk-in on the N9KS 147.39 repeater.

LAKESHORE RPTR. ASSN.

Last Tue., Jan., Apr., Jul., & Oct., 7:30 p.m. Red Cross Bldg., 4521 Taylor Ave., Racine, WI

M & M AMATEUR RADIO CLUB

General meeting held second Thursday each month at 7:00 p.m. in cafeteria of BAMC, basement, Tenth Ave., Menominee, MI. All amateurs and guests are welcome. Use the 147.000+ repeater. Our net is Sunday at 7:00 p.m. on the repeater. Our address is P.O. Box 1082, Marinette, WI 54143

MANITOWOC COUNTY RADIO AMATEURS

Directors Meeting: First Wed. Held at 6:30 p.m. in the basement, Manitowoc City Hall, 817 Franklin St., Manitowoc.

General meeting: Second Wed. Held at 7:30 p.m. at Associated Manitowoc Bank, corner of 10th and Franklin Streets.

MILWAUKEE RADIO AMATEURS CLUB

Last Thursday evening, Redemption Lutheran Church, 4057

Badger State Smoke Signals

Amateur Radio Education and Information

CHAIRMAN: Kenneth A. Ebner, K9EN, 822 Wauona Trail, Portage, WI 53901. Telephone (608) 742-3560. kebner@palacenet.net

EDITOR: Jim Romelfanger, K9ZZ, 412½ Ash Street, Baraboo, WI 53913. Telephone (608) 356-4031. InterNet e-mail: smokesigs@baraboo.com

TREASURER: Kenneth A. Ebner, K9EN, 822 Wauona Trail, Portage WI 53901.

EDITORIAL BOARD: Ken Ebner, K9EN; Dave Knaus, WA9POV; Don Evenson, K9JYX; Jim Romelfanger, K9ZZ.

Subscriptions

1 year	(12 issues)	\$13.95
2 years	(24 issues - save \$1.95)	\$25.95
3 years	(36 issues - save \$3.90)	\$37.95

Subscription form is on page 5. Special club package reduced rates are available. For information, contact Ken Ebner, K9EN.

When to Send It

The closing date for each issue is the first of the month for the next month's issue. For example, the closing date for the June issue is May 1. The only exception is for participating clubs' minutes. Participating clubs are requested to send their material no later than FIVE DAYS after the club's meeting. For example, if a club meets on the 4th of the month, the material should be sent no later than

the 9th of that month. This material is to be sent to the Editor.

Where to Send It

Address changes and corrections should be sent to Ken Ebner. Editorial material, photographs, feature articles, display ads, and exchange papers should be sent to Jim Romelfanger. Inquiries about advertising should be directed to Ken Ebner. Club, swapfest, and Test Point information should be sent to Ken Ebner.

Swapfest ADS should be sent to Jim Romelfanger **NO LATER THAN EIGHT WEEKS BEFORE THE EVENT'S DATE.**

Subscriptions should be sent, with check or money order, to Ken Ebner.

Conditions for Reprinting or BBS Posting Material from Badger State Smoke Signals

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This newspaper is produced by volunteer radio amateurs, and is non-profit. This newspaper is mailed from Portage, WI 53901.

Badger State Smoke Signals is incorporated as a Wisconsin non-stock, non-for-profit organization.

Editorial Disclaimer

The opinions expressed in editorials, guest editorials, columns, articles, and letters from readers are the opinions of the authors only, and do not, unless otherwise stated, express or imply endorsement by *Badger State Smoke Signals*, or by any other individual or organization.

p.m. 12 months of the year.

NORTHWOODS ARC (RHINELANDER WI)

Third Tue. Doors open at 7:00 p.m. Meeting at 7:30 p.m. South Park School, Rhinelander, WI. Talk-in on 146.94/.34. All interested visitors to the Northwoods are welcomed.

OZAUKEE RADIO CLUB

Second Wed. - 7:30 p.m. - Grafton Multipurpose Senior Center.

QCWA - WISCONSIN CHAPTER #55

Contact Erwin Froelich, W9RZW, Treasurer, Rte 1 Box 177D, Pine River WI 54965. For information about meeting dates or joining QCWA Chapter #55. The Wisconsin Chapter holds Spring and Fall dinner meetings.

QCWA - SOUTHEAST WISCONSIN CHAPTER #162

Meets third Mon. monthly, 7:30 p.m., Around the Clock Restaurant, 3012 Rapids Drive, Racine.

RACINE MEGACYCLE CLUB

Second Mon., 7:30 p.m., Red Cross Bldg., 4521 Taylor Ave., Racine, WI

RED CEDAR REPEATER ASSOCIATION, INC.

Saturday coffee at Hardees in North Menomonie, corner of Highways 12 and 25 at 9:00 a.m. Social hour on 4th Tuesday at 7:30 p.m. at The Peppermill Too, 1414 9th Street in the L-Mart shopping center, for the months of January, March, April and September through November. Guests welcome.

RIVERLAND AMATEUR RADIO CLUB

First Tue. - 7:00 p.m. - Onalaska Community Center, Onalaska WI.

ROCK RIVER RADIO CLUB

Monthly - first Tue. - 7:30 p.m. at Dodge County Administration Building, 127 East Oak Street, Juneau, WI. ARES Net: 146.04/146.64 Mondays at 7:30 p.m. Sat.s on 7277 KHz at 10:30 a.m.

SHEBOYGAN COUNTY AMATEUR RADIO CLUB

Second Tue. - 7:00 p.m. - Sheboygan Red Cross/Boy Scout Bldg., 2032 Erie Ave.

SOUTH MILWAUKEE AMATEUR RADIO CLUB

First Wed. - Legion Post 434, Shepard Ave., Oak Creek WI. Auctions in March and October.

ST. CROIX VALLEY RADIO AMATEURS HUDSON

Club meetings are held on the third Tuesday of each month at the St. Croix County Emergency Government Center on Charmicael Road in Hudson, WI. A short business meeting begins at 7:30 p.m. followed by the program. Talk in is available on the 145.130 MHz repeater. All are welcome!

TAYLOR COUNTY AREA AMATEUR RADIO CLUB (TCAARC)

MEDFORD

Usually the 1st Thur. of the month at 7:00 PM sharp. Usual location: emergency government meeting room/Red Cross office, basement of Sheriff's Annex to Taylor County Courthouse, 2nd and Ogden Sts., Medford, WI. Talk-in on 147.15 (+600) repeater. Amateurs & guests are welcome. ARES Net, Wed. nights at 8:30 PM on 147.15 (+600) repeater. For info contact: Mike Schoenfuss, N9GHZ, P.O. Box 401, Abbotsford, WI 54405, phone (715) 223-3996.

TRI-COUNTY AMATEUR RADIO CLUB

Meetings held at members homes. Usually monthly on Sunday afternoon. Contact: Glenn Eisenbrandt, (414) 563-6502 or John Saterlee, (414) 563-6381.

WASHINGTON COUNTY AMATEUR RADIO CLUB

Second Thursday, 7:30 p.m., Washington County Court House. Net on Thursdays at 7:30 p.m. on 146.73.

WATERTOWN AMATEUR RADIO CLUB

First Thur. of the month at 7:00 p.m., The Watertown Public Library, 100 S. Water St., Watertown, WI.

WAUPACA AMATEUR RADIO CLUB

First Sat. in March, June, September and December, at 9:30 a.m. at the Waupaca Fire Station in downtown Waupaca. "CQ First Tue." - A social gathering and dutch treat luncheon at the King's Table in King, WI, on Highway QQ just south of highways 10 and 54 on the west side of Waupaca.

WEST ALLIS RADIO AMATEUR CLUB

Second Tue. - 8:00 p.m. - St. Peter's Episcopal Church, 7929 Lincoln Ave. Entrance is at rear of building on alley.

THE WINNEBAGO AMATEUR RADIO CLUB (Formerly the Oshkosh Amateur Radio Club)

The Winnebago ARC welcomes all Amateurs and interested persons to join us at the Oshkosh Armory on Armory Place, Oshkosh, WI. Meetings are held the third Sunday each month at 1600 hrs. Talk in on 147.24 repeater.

For further information contact KB9IME, Dan Lenz, at (414) 233-7145.

WISCONSIN ASSOCIATION OF REPEATERS

Meetings are held Quarterly, with time and location to be announced. Repeater licensees, trustees, and sponsors are urged to attend W.A.R. meetings. All interested parties are welcome, as well.

WISCONSIN RAPIDS AMATEUR RADIO CLUB

Third Wednesday, 7:00 p.m. in room 114 of the Wood County Court House. Talk-in on 146.79 for entry into the building.

WISCONSIN VALLEY RADIO ASSOCIATION (WAUSAU)

First Tue. - 7:30 p.m. - Location varies: info on 146.04/64. Wausau.

YELLOW THUNDER AMATEUR RADIO CLUB (BARABOO)

Days rotate: The meeting dates for 1996 are Aug 14, Sep 12, Oct 15, Nov 13, with the Holiday party scheduled for Friday October 13, 1996. All meetings will be at the Baraboo Civic Center, room 14, unless otherwise noted. Starting time for the monthly club meeting is 7:30 p.m.. The program start time after the meeting is 8:00 p.m., with a one hour limit.

Let Badger State Smoke Signals know your club's meeting dates, and we will let our readers know of your meetings and activities. There may be Amateurs in your area interested in joining your club, or members of other clubs interested in making an interclub visit.

The Test Point



Amateur Radio Examination Locations and Schedules in the Wisconsin Area

February 07, 1998	Oshkosh (Omro), WI
February 07, 1998	Racine, WI
February 07, 1998	St. Paul, MN
February 07, 1998	Onalaska, WI
February 07, 1998	Fewaukee, WI
February 09, 1998	Libertyville, IL
February 12, 1998	Apple Valley, MN
February 12, 1998	Winona, MN
February 14, 1998	Blaine, MN
February 14, 1998	Madison, WI
February 14, 1998	Oak Creek, WI (MRAC)
February 17, 1998	Eden Prairie, MN
February 21, 1998	Cottage Grove, MN
February 21, 1998	Loves Park, IL
February 21, 1998	Milwaukee, WI (BE)
February 24, 1998	Dixon, IL
February 28, 1998	Bloomington, MN
February 28, 1998	Milwaukee, WI (MRAC)
February 28, 1998	Tomahawk, WI
March 07, 1998	Oshkosh (Omro), WI
March 07, 1998	Racine, WI
March 07, 1998	St. Paul, MN
March 09, 1998	Libertyville, IL
March 12, 1998	Apple Valley, MN
March 14, 1998	Blaine, MN
March 14, 1998	Madison, WI
March 14, 1998	Oak Creek, WI (MRAC)
March 14, 1998	Friendship, WI
March 16, 1998	McHenry, IL
March 17, 1998	Eden Prairie, MN
March 18, 1998	Sheboygan, WI
March 21, 1998	Appleton, WI
March 21, 1998	Cottage Grove, MN
March 21, 1998	Loves Park, IL
March 21, 1998	Milwaukee, WI (BE)
March 21, 1998	Redgranite, WI
March 22, 1998	Davenport, IA
March 28, 1998	Bloomington, MN
March 28, 1998	Milwaukee, WI (MRAC)
March 28, 1998	Tomahawk, WI
March 28, 1998	Menomonie, WI
April 04, 1998	Oshkosh (Omro), WI
April 04, 1998	Racine, WI
April 04, 1998	St. Paul, MN
April 09, 1998	Apple Valley, MN
April 11, 1998	Blaine, MN
April 11, 1998	Eau Claire, WI
April 11, 1998	Madison, WI
April 11, 1998	Oak Creek, WI (MRAC)
April 13, 1998	Libertyville, IL
April 18, 1998	Cottage Grove, MN
April 18, 1998	Loves Park, IL
April 18, 1998	Milwaukee, WI (BE)
April 18, 1998	Mount Pleasant, IA
April 21, 1998	Eden Prairie, MN
April 25, 1998	Madison, WI
April 25, 1998	Bloomington, MN
April 25, 1998	Milwaukee, WI (MRAC)
April 25, 1998	Tomahawk, WI
May 02, 1998	Oshkosh (Omro), WI
May 02, 1998	Racine, WI
May 02, 1998	St. Paul, MN
May 09, 1998	Blaine, MN
May 09, 1998	Madison, WI
May 09, 1998	Manitowoc, WI
May 09, 1998	Oak Creek, WI (MRAC)
May 09, 1998	Onalaska, WI
May 14, 1998	Apple Valley, MN
May 16, 1998	Redgranite, WI
May 16, 1998	Cottage Grove, MN
May 16, 1998	Milwaukee, WI (BE)
May 16, 1998	Sheboygan, WI
May 16, 1998	Loves Park, IL
May 19, 1998	Eden Prairie, MN
May 23, 1998	Bloomington, MN
May 30, 1998	Milwaukee, WI (MRAC)
May 30, 1998	Tomahawk, WI
June 06, 1998	Oshkosh (Omro), WI
June 06, 1998	Racine, WI
June 06, 1998	St. Paul, MN
June 11, 1998	Apple Valley, MN
June 13, 1998	Blaine, MN
June 13, 1998	Madison, WI
June 13, 1998	Marshfield, WI
June 13, 1998	Oak Creek, WI (MRAC)
June 16, 1998	Eden Prairie, MN

June 20, 1998	Cottage Grove, MN
June 20, 1998	Loves Park, IL
June 20, 1998	Milwaukee, WI (BE)
June 27, 1998	Bloomington, MN
June 27, 1998	Milwaukee, WI (MRAC)
June 27, 1998	Tomahawk, WI
July 15, 1998	Sheboygan, WI
August 15, 1998	Redgranite, WI
September 12, 1998	Sheboygan, WI
September 12, 1998	Onalaska, WI
September 12, 1998	Appleton, WI
October 17, 1998	Redgranite, WI
November 01, 1998	Kaukauna, WI
November 07, 1998	Menomonie, WI
November 07, 1998	Onalaska, WI
November 18, 1998	Sheboygan, WI
December 19, 1998	Redgranite, WI
January 23, 1999	Appleton, WI
Monthly, 1st Sat.	Racine, WI
(except January, July & August)	
Monthly, 1st Sat.	Oshkosh (Omro), WI
Monthly, 1st Sat.	St. Paul, MN
Monthly, 2nd Thu.	Apple Valley, MN
Monthly, 2nd Sat.	Oak Creek, WI (MRAC)
Monthly, 2nd Sat.	Madison, WI
Monthly, 2nd Sat.	Blaine, MN
Monthly, 3rd Tue.	Eden Prairie, MN
Monthly, 3rd Sat.	Milwaukee, WI (BE)
Monthly, 3rd Sat.	Loves Park, IL
Monthly, 3rd Sat.	Cottage Grove, MN
Monthly, 4th Sat.	Bloomington, MN
Monthly, Last Sat.	Milwaukee, WI (MRAC)
(except December)	
Monthly, Last Sat.	Tomahawk, WI
(January thru October only)	
Quarterly	Marshfield, WI
(Second Saturday every third month.)	
Quarterly	Eau Claire, WI
(Second Saturday Jan., Apr., & Oct.)	
plus annual summer hamfest.)	

Many Swapfests/Hamfests offer exam sessions. If not shown above contact the sponsoring club in the Swapfest column on page 2.

The FCC now requires applicants to show their ORIGINAL AMATEUR LICENSE to the VEC. A copy of your license must be attached to your FCC form 610. You will also be required to have a photo ID, or other acceptable identification.

GENERAL RULES

FOR MOST EXAMINATIONS:

Be sure to check with sponsors in the event there are changes and/or errors in the dates or information given.

Some examinations require filling an FCC Form 610 and advance registration at least 30 days before the exam date. (Some VECs permit walk-ins. Check with sponsor.)

To register, you must first secure a copy of the current FCC Form 610 and fill it out completely (AND CORRECTLY). Get your form from an FCC Field Office, the ARRL. Send a 32c/ SASE if you request one from the ARRL. In most cases, forms can also be obtained from the sponsoring group.

ARRL/VEC examinations require a check for \$6.35 payable to "ARRL/VEC".

The FCC now requires applicants to show their ORIGINAL AMATEUR LICENSE or CSCE to the VEC. You must also have two good copies of your license or CSCE. A copy of your license or CSCE must be attached to your FCC form 610 and most VEC want a copy for their records. You will also be required to have a photo ID, or other acceptable identification.

Technician class licensees must show proof of testing before March 21, 1987, in order to upgrade to General with a code test only.

Additional information is given below.

For those with internet access, a listing of exam sessions is available from:

<http://www.arrl.org/arrlvec/examsearch.shtml>

By checking this page, a person can find out registered VE sessions anywhere in US and some overseas. You can search by country, state or zip code. The listing is not specific to any particular VEC, it is a master database. (Thanks to KB9EQI for information.)

MILWAUKEE RADIO AMATEURS' CLUB (MRAC/VEC) SECOND SATURDAY - OAK CREEK, WI LAST SATURDAY - MILWAUKEE, WI

SECOND SATURDAY DATE: 1:00 p.m. to 3:00 p.m. at Wauwatosa Savings Bank, 6560 S. 27th St., Oak Creek, WI.

LAST SATURDAY DATES: (except December): 9:00 a.m. to 12:00 noon at Amateur Electronic Supply (AES), 5710 W. Good Hope Rd., Milwaukee, WI. Note: For Additional Information: Call (414) 466-HAMS (Answering Machine).

Bring along your ORIGINAL license, CSCE (if any) and one (1) good quality photocopy of each, plus two forms of identification, such as driver's license, etc. Also required is \$6.35 for the exam fee. WALK-INS are welcome. To register in advance, use a post card: Print the grade of license you are applying for, your name, address, and telephone number. Send the card to MRAC/VEC, Milwaukee Radio Amateurs Club, PO Box 25707, Milwaukee, WI 53225.

BADGER EXAMINERS (BE) - MILWAUKEE

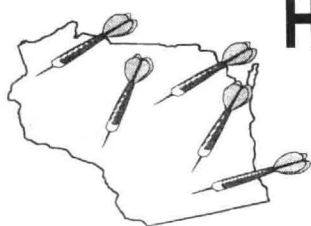
Badger Examiners group now testing at AES (Amateur Electronic Supply) at 6th and Good Hope, every third Saturday MORNING. Exam times are not 9:30 a.m. to 12:00 noon, at the old Serman Printing shop, just 300 feet west of the AES store. Novice to Extra are offered, and all test materials are provided, fee is \$6.35, and bring your original license, or CSCE if needed. Also available are Commercial license exams GROL (General Radiotelephone license), GMDSS, Telegraph, Etc. Fee is \$35.00. For more information call Gary Sharbuno, W19M at (414) 355-0237.

MADISON, WI

VE exams are held in Madison every second Saturday morning of the month at 8 a.m. They are held at the operations building of the Madison Metropolitan Sewerage District at 1610 Moorland Rd. To get there take the Beltline (Hwy 12 & 18) to South Towne Drive. Go south 8/10 mile till South Towne Drive makes a bend and becomes Moorland Rd. and enter at gate.

You should bring a picture ID, your original license and a copy of your license. For exams beyond the novice tests, bring a check for \$6.35, made out to the ARRL/VEC. If the special 610 form with the medical

(continued on page 15)



HERE and THERE

Here's Ray - another way!

Glancing through the forty or so different ad fliers in the Sunday newspaper of February 15 turned up something I hadn't noticed before. Right up front, at the top of the first page of Menard's "stuffer" was Ray Szmanda, KB9JPB, looking a bit different than he does in the Menard's TV spots. We thought you like to see how he looks in sketched form.



US to participate in CEPT guest license arrangement

US amateurs soon will not need to apply for reciprocal licenses in order to operate during short visits to most European countries. While an official announcement still

may be a few weeks away, it's been learned the US request to participate in the European guest license arrangement has been approved. Similarly, most European hams visiting the US no longer will have to submit FCC Form 610A.

Last September, the US State Department applied for US participation in the European Conference of Postal and Telecommunications Administrations (CEPT) Amateur Radio licensing system. A holders of a CEPT license can operate in CEPT-participating countries without having to apply for a reciprocal license.

Approval of the US request came in late January at a meeting of the CEPT Radio Regulatory Working Group (WGRR), in Groningen, The Netherlands. The European Radiocommunications Office (ERO) has been instructed to officially notify the FCC of the decision approving US participation.

The State Department's action came at the urging of the ARRL that the US take advantage of the CEPT Recommendation T/R 61-01 arrangements and issue a license that would be recognized by CEPT-participating administrations and would be valid for brief visits.

Also last fall, the FCC proposed amending the Amateur Radio rules to make it easier for hams holding a CEPT license or an International Amateur Radio Permit (IARP) to operate during short visits to the US.

Under the soon-to-be-implemented arrangement, a US Technician license would be recognized as a CEPT Class 2 (VHF-only) license, with full privileges above 30 MHz. Holders of Tech Plus through Extra tickets would be given a CEPT Class 1 license, with full privileges on HF and VHF. Novice licensees would not be eligible for a CEPT equivalent license since most CEPT countries don't offer a license of this type.

Once the ERO formally advises the FCC of the decision, the FCC must complete the steps to implement the participation before CEPT licensing can become

Meet our new copy editor!



Dear reader, meet BSSS' new copy editor. This gentleman's name is Starsky (no last name). We've been looking for one meeting our stringent standards for a very long time, and, at long last, we have one! Those standards include having the ability to get rid of editorial material that does not come up to snuff, and having intelligence somewhat close to the editor's. Welcome aboard, Starsky! □

Attention Badger State Smoke Signals Friends!

Join the Racine Megacycle Club in their second annual cruise to the Caribbean on Holland America's Westerdam. We will sail the Western Caribbean from Nov. 14-21 and enjoy the Big Band Sounds of the Tommy Dorsey Orchestra. We have a 50% off cruise portion of this trip. Visit Ft. Lauderdale, Nassau, San Juan, St. Thomas, and Half Moon Cay before returning to Ft. Lauderdale. Prices start at \$709 for the cruise. Air and port taxes are additional. Call Cheryl (WS9P), a sales agent for Cruise Commanders at 414-632-2985 for more information.



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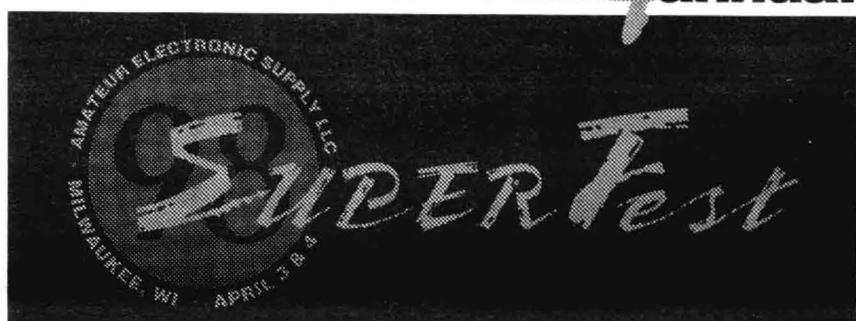
Leave any Monday in March and stay for 4 nights and receive this special Fun Jet rate. Air is out of MKE.



Call Cheryl (WS9P), a sales agent for Veltra Travel at 414-632-2985 or e-mail cgjmill@wi.net

I hope you and your club members can enjoy each other's company on an exciting vacation!

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Chat with or Join Local Organizations: Clubs • Repeater Groups • MARS • CAP

License Exams: The M.A.R.C. Volunteer Examiner Team will be testing on Saturday, April 4th from 9:00 A.M. until noon. If you would like to test, bring a photo copy of your original license or C.S.C.E. (if any), two forms of I.D. (one photo I.D.) & \$6.25 for the testing fee.

Gordon West Show & other Forums: On Saturday at 2:00 P.M., Gordon West, WB6NOA, will present his third action-packed show for us. Topics will include GPS with built-in maps-how they apply to Ham radio, Ham-Satellite updates and Weak Signal Communications on 6 meters & up. In addition, a series of short forums will be presented throughout SUPERFest by reps from several of the participating manufacturers.

Specials/Closeouts • Free Coffee & Popcorn, 25¢ Sodas • Over 100 Great Prizes with Drawings every 1/2 hour • KENWOOD A/V Rack System Grand Prize! (\$1400 Value!)

You must sign-up for the prize drawings in the store, during SUPERFest and must be present to win. The Grand Prize drawing will be at 3:00 P.M. on Saturday and you need not be present to win - we'll call the winner right away.

If you can't attend - Call during SUPERFest hours to check on any Specials, Closeouts, etc. that may be going on during this event.

Check for forums and other SUPERFest updates on our or Web site: www.aesham.com

**Friday
April 3rd
2 PM to 7 PM**

**Saturday
April 4th
9 AM to 3:30 PM**

"We've been urging the Commission to do this since 1991," said ARRL Executive Vice President David Sumner, K1ZZ. "Now that CEPT has given the green light, we hope the FCC will step on the gas."

The ARRL Letter, 2/13/98

Hams help in west coast flooding

Amateur Radio has been very active in the San Francisco area, assisting emergency officials in coping with the disastrous effects of heavy rains in recent days. ARRL San Francisco Section Manager John Wallack, W6TLK, reports that floods and mudslides have closed many roads and isolated smaller communities, especially along the coast.

"With more rain forecast for this week, flooding along the Russian River here in Sonoma County may enter a second week," Wallack says. In six canyons along the river, 400 homes are at risk of sliding down muddy slopes.

Hams have been stationed in the affected areas at shelters and EOCs since the disaster started on February 3. In Mendocino, Lake, Humboldt and Marin counties hams have also been active in supporting emergency activities. Wallack says he worked at the Sonoma County EOC February 6 and 7. "I had a chance to see the excellent response by the emergency ham radio teams in assisting emergency officials in responding to the serious needs of our community," he said. "Amateur Radio has again proved to be a valuable resource."

The ARRL Letter, 2/13/98

VHF Ops Awash in Awesome Aurora

VHF/UHF operators had a fun time on the evening of Tuesday, February 17. Earlier that day, "Au" (aurora) propagation was noticed on the 10 and 12 meter bands by Bob, W9CYI, of Fox Point. By the time Rick Kissell, WB9GYT, got home that evening, it was in full swing on 50 MHz. Using only his "mediocre station" (90 watts to a chimney-mounted square loop up 35 feet), Rick was able to work stations in Ohio, Indiana, Illinois, Kentucky, and Ontario on 6M CW. (Most Au DX is worked with directional antennas, pointed due north from both QTHs.) It was Rick's first experience with the raspy CW notes characteristic of auroral propagation. (At least one Toronto station, VE3SRE, worked into Maine, Iowa and Wisconsin on 2M CW that evening.)

The night was made even more memorable for WB9GYT by the birth a few hours later of his son, Paul. Rick cracked that if it had been a girl, she might have gotten named.. Aurora! As fate would have it, the kid was spared that humiliation. (Paul Kissell was born a mere 17 minutes after Rick and XYL Annie arrived at St. Francis Hospital! He clocked in at 8.0 pounds and 21 inches. Both mother and child are doing well.)

Hamateur Chatter, Milwaukee Radio Amateurs Club,
Pancho Doneis, Editor

Four schools scheduled for Mir QSOs

The SAREX Working Group has announced that four schools have been tentatively scheduled for school-to-Mir contacts in the very near future. If all goes as planned, students at the schools will get to talk with US astronaut Andy Thomas, KD5CHF/VK5MIR, who arrived aboard the Russian space station in late January.

Schools on the "prime" contact list include Shell Beach Elementary School, in Pismo Beach, California; Prairie Hills Elementary School, Colorado Springs, Colorado; Buist Academy, Charleston, South Carolina; and Carey Junior High School, Cheyenne, Wyoming. Arranging the contact schedule has taken several months and was complicated by equipment problems aboard Mir and -- more recently -- the change in crews.

Sources at NASA say the contacts could happen within the next two weeks, and possibly as early as next week.

The schools involved have been given tentative QSO dates, but these could change. "There is always a possibility of a delay with SAREX schedules," warns ARRL Educational Programs Coordinator Glenn Swanson, KB1GW. "Such is the nature of any experiment."

A typical Mir pass lasts approximately ten minutes, during which students will interview the spacecraft's crew by asking prepared questions. Also aboard Mir are two Russian cosmonauts--both hams: Talgat Musabayev, RO3FT, and Nikolai Budarin, RV3FB (ex-RV3DB/R4-MIR).

The school contacts will be a new experience both for the pupils on Earth and for Thomas aboard Mir. So far, Thomas has logged very little time on the spacecraft's Amateur Radio equipment because of the crew's busy schedule, but he did make some contacts this week on 440 MHz, using the R0MIR call sign. Al Emer, N2YAC, in Holmdel, New Jersey, talked to Thomas for about six minutes on February 17 at around 1825 UTC.

"He seemed to be in no rush to get off the air," Emer said. "He's a real ham. He likes to talk!" Emer said he wished his son, Sean, had been there for the

ASTRO-SWAP COMPLETED; THREE HAMS ON MIR

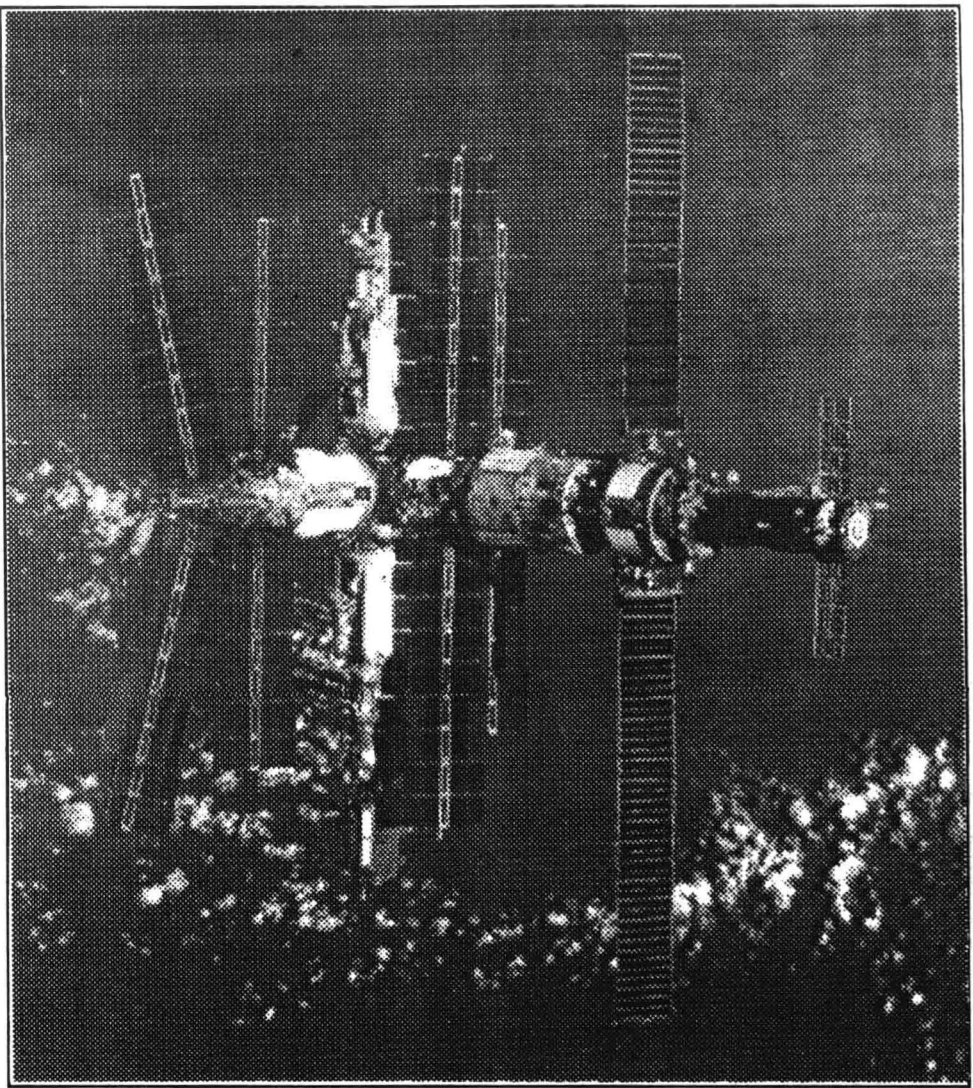
Three hams -- two Russians and one American -- now are aboard the 12-year old Mir in the photo at right. US astronaut Andy Thomas, KD5CHF/VK5-MIR, has swapped spots on the Russian space station with Dave Wolf, KC5VPF. Wolf returned to Earth -- and a pepperoni pizza he'd called ahead for -- on January 31 aboard the shuttle Endeavour. For its next mission, in July, Endeavour will carry the US Node Module to support construction of the International Space Station.

At about the same time the Endeavour was departing Mir, a Russian replacement crew and a French astronaut on his first ride into space were blasting off from Baikonur. The new Russian crew, Talgat Musabayev, RO3FT, and Nikolai Budarin, RV3FB (ex-RV3DB / R4MIR), and French researcher Leopold Eyharts, arrived February 1. Eyharts will stay for three weeks.

The Australian-born Thomas, 41, is an engineer and the seventh US astronaut to serve a tour aboard the Russian space station. He will spend the next four months aboard Mir.

It had been announced that Thomas would be the last US astronaut to be posted to Mir. But last week, NASA and Russian authorities left open the door to the possibility that additional US astronauts might also serve aboard Mir as the International Space Station construction lags behind schedule.

The ARRL Letter, 2/6/98/NASA photo



contact, but he was still at school. N2YAC was running 12 W to KLM 14C and 18C circularly polarized antennas at the time of the contact. He reported good signals on both ends.

Russian crew members Anatoly Solovyov and Pavel Vinogradov left for home in a Soyuz capsule on February 19 -- the 12th anniversary of the Mir's launch -- and returned to Earth in a raging snowstorm. They had been on Mir since last August. Departing with them was French researcher Leopold Eyharts. Thomas, 46, will remain aboard Mir until June. It's not yet been decided if another US astronaut will succeed him on the Russian space station.

The ARRL Letter, 2/20/98

Two hams assigned to John Glenn flight

Two hams -- US Astronaut Scott Parazynski, KC5-RSY, and European Space Agency astronaut Pedro Duque, KC5RGG, of Spain--will be among an international crew this fall when US Senator John Glenn gets his second chance at space travel. The STS-95 mission will mark the third shuttle flight for Parazynski, a medical doctor who trained for a stay aboard Mir but had to be reassigned after it was determined he was too tall to fit the Russian space suits worn aboard the Soyuz.

It's still not known at this time if the Shuttle Amateur Radio Experiment (SAREX) payload will be aboard STS-95, which is scheduled to go up in October. The launch date for the only scheduled SAREX mission, STS-93, has slipped from August to December. The STS-95 flight that will carry the United States' newest and oldest astronaut into space has been under consideration for several months as a possible SAREX flight.

Condensed from The ARRL Letter, 2/20/98

Near Space Sciences announces test flight

Some time in late March, Near Space Sciences (NSS) will be flight testing some of the necessary flight components for a project flight that they have been working on for over five years. If you're not going to Dayton this year, try to keep that weekend open and head on over to Sheboygan. If all goes as planned (and hoped) you will be able to witness history in the making!

This project has taken myself well over five years of work and political finagling. I had to even go all the way to Washington DC, to get permission to do this mission!

In late March we will be flight testing some of the components for the May flight. All are welcome and encouraged to participate.

We are sorry about the vagueness of this announcement here but we ourselves don't even know when we will be test launching these systems. That all depends on how the components survive ground based tests before they qualify for flight testing. But there will be ways to know when and what it will be.

Listen to either the MARA net or the Baraboo swapnets for announcements, or or visit the NSS home page at:

<http://tbcnet.com/~davidc/nss/nss.html>

Next month's issue will have details of the May flight into history!

Joe Mayenschein, WB9SBD
President, Near Space Sciences

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MARCH 1998

The Computer Corner

By Stan Kaplan, WB9RQR

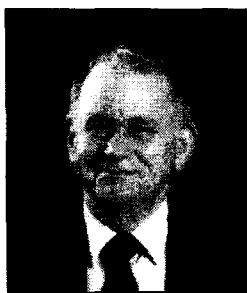
105 Martin Drive

Port Washington, WI 53074-9654

(414) 284-9346

WB9RQR @ N9PBY.EN63BI.WI.USA.NA

SKAPLAN @ MCW.EDU



No. 52: Is WINDOWS 95 A VIRUS?

According to Robert Slade (*Guide to Computer Viruses*, 2nd ed., Springer, New York, 1996), a computer virus is:

"an entity that uses the resources of the host to spread and reproduce itself without informed operator action"

and Slade emphasizes the word **informed**. Well, gals and guys, guess what? According to this definition, Windows 95 is a virus.

If you put a floppy disk in a Win95 machine and copy a file to it using the "Send To" function called up by a right click of the mouse button, it of course sends a copy to the floppy and thereby alters the file structure of the floppy with your consent. But get this: it also changes the boot sector of that floppy, without informing you of the fact and without your consent.

One of my favorite web sites is <http://www.annoyances.org>, where Win95 bugs and annoyances are published, along with fixes and work-arounds. While browsing this site in December 1997, I found one reference to behind-the-scenes altering of floppies inserted in a Windows 95 machine. I could not believe that Microsoft would build into it's software an unauthorized change of the computer owner's floppies, so I did some experiments to see for myself. It is true!

Here is how I proved it. First, I examined the boot sector of 3½ inch HD floppies (1.44 Mb) which were either freshly formatted or brand new (Sony HD, IBM preformatted). Norton's DISK EDITOR was used to read and print the boot sectors. The disks that I prepared were formatted in several machines with different operating systems, as follows: MS-DOS 6.22, PC-DOS 7 (IBM), MS-DOS 7 (formatted from the DOS that Windows 95 sits on) and Windows 95 itself (formatted directly from My Computer on the Desktop). The following table shows just the OEM ID section (8 bytes long) of the boot sector of each disk (the rest of the boot sector is not relevant).

	NEW SONY	MS-DOS 6.22	PC-DOS 7	MS-DOS 7	WIN95
OEM ID:	IBM 3.3	MSDOS5.0	IBM 7.0	MSWIN4.0)+W%-IHC

Then, I put a new Sony disk (with the OEM ID: IBM 3.3) into my Win95 machine and used the Send To function to copy a single file to it. Afterward, I examined the boot sector and found the following:

	NEW SONY
OEM ID:	(k") + IHC

Clearly, Win95 altered the boot sector. Just to confirm it, I put a PC-DOS 7 disk (the boot sector read IBM 7.0) into the Win95 machine and copied just one file to it. The boot sector then appeared thus:

	PC-DOS 7
OEM ID:	(ip)slIHC

Again, the boot sector was altered. However, when I exited from Win95 into the MS-DOS 7 operating system and used the COPY command to copy a file to a Sony disk, the boot sector was unchanged.

Win95 supposedly changes the boot sector to prepare the floppy in some way for long filenames. However, it does this even if the owner has not selected the long filename option, which is true in my case.

Well, so what if Win95 changes the boot sector without permission? Can it really make any difference? You bet it can. If you have boot disks from certain versions of MS-DOS or other operating systems (PC-DOS, DR-DOS) and you access them from Windows 95, it can make them unusable. Some copy protected disks can be completely ruined by putting them in a Win95 machine. Indeed, any pre-Win95 software disk that inspects it's own validity can be ruined by accessing it in a Win95 machine. Beyond that, it also means that the distribution disks that come with any software you buy on floppies is altered the moment you use them for installation, without your informed consent, by your lovely new Win95 computer.

The answer? One approach is to write-protect any floppy you don't want altered before putting it in your Win95 computer. However, you should know that this step is not foolproof because some floppy drives (even new ones) have defective write-protect mechanisms, allowing them to ignore the write-protect tab. A better ploy is to avoid installing software from distribution disks. Use DISKCOPY to make copies of them, preferably in an older, non-Win95 machine. Then use the copies to install the software. However, even DISKCOPY in an MS-DOS 6.22 machine will alter the serial number of the copies. Use Norton's DUPEDISK for an absolutely perfect, byte for byte image copy of a disk. Even from MS-DOS 7 (the operating system under Win95), DUPEDISK will make a perfect copy, with not one byte altered from the original.

This is another incentive to set up your Windows 95 machine to routinely boot into MS-DOS 7, if for no other reason than to format disks (a format from MS-DOS 7 did not alter the boot sectors in my tests above). However, don't forget to create and edit a workable AUTOEXEC.BAT and CONFIG.SYS if you don't have them, so you can do more than just execute the FORMAT internal command. No. 39 in this series (Feb '97), HOW TO OPEN AND SHUT THE WINDOWS IN 95, gave details on the way to boot directly to DOS in your Windows 95 computer.

I think this is an astonishing finding, and if you are like me, you also resent the covert, unauthorized alteration of your floppy disks. We now need complete disclosure from Microsoft, including a complete explanation of what is coded in that altered OEM ID and how it is used.

Keep learning, keep aware and Happy Computing!

Reprinted, by permission, from the ORC Newsletter, Ozaukee Radio Club, 101 E. Clay Street, Saukville, Wisconsin 53080-1903 (Skip Douglas, KA9DDN, Editor). □

COMPUTER CORNER: THE FIRST 48

By Stan Kaplan, WB9RQR

I have had many requests for one *Computer Corner* article or another over the last few years, and even quite a number of requests for the whole series. Several more persons have encouraged me to publish the whole works as a book. Well, the column is strictly a labor of love, and I am not ready to embark on a commercial venture with a publisher. However, Dave Barrow, N9UNR, convinced me that we could satisfy the many requests without building a project all out of proportion. Therefore, this is what we now have available.

Numbers 1 - 48 have been completely redone in Microsoft Word and are now clean and readable. Each has been reformatted with all illustrations included, and minor errors have been corrected. The tables have been cleaned up and cast in easily readable form. A Title sheet and Table of Contents with Publication History have been added to the front, and a complete and useful Index has been added to the back (see the chart below). The document sports over 100 pages (over 50 sheets of paper), more than 44,000 words, and a number of tables and diagrams all organized in a binder. Most important, just about all of the information is still current and useful.

We propose to make copies available to you for \$10.00, which includes the cost of mailing. If there are any profits from the sales, they will go to Ozaukee County ARES/RACES (OZARES) for the purchase of equipment and supplies used in its role in Ozaukee County Emergency Management.

This is a good chance for you to get a wealth of computer information, written for hams by a ham. Send a check for \$10.00 payable to Stanley Kaplan to:

Stan Kaplan, WB9RQR
105 Martin Drive
Port Washington, WI 53074-9654

THE COMPUTER CORNER

#	ORC	BSSS	TITLE/TOPIC
1	Jan 93	Jul 93	NASA "Data Egg", CONFIG.SAF, AUTOEXEC.SAF.
2	Feb 93	Aug 93	Floppy disk sizes.
3	Mar 93	Sep 93	Floppy disk compatibility, formatting.
4	Apr 93	Oct 93	Floppy disk formats.
5	May 93	Nov 93	File number limitations in directories.
6	Jun 93	Dec 93	Diskcopy.
7	Jul 93	Jan 94	Virtual disks (VDISK, RAMDRIVE).
8	Aug 93	Feb 94	Floppy disk surgery: how to fix a bound disk.
9	Oct 93	Mar 94	Computer books.
10	Nov 93	Apr 94	Hard drive purchase.
11	Dec 93	May 94	Don't be afraid to repair your computer.
12	Jan 94	Jun 94	The \$5 computer; swapfest shopping.
13	Jul 94	Jul 94	VIRUSES, AND HOW TO FIGHT THEM (McAfee SCAN, VSCAN).
14	Aug 94	Sep 94	A GOOD ONE IS NOT HARD TO FIND (how hard drives work).
15	Sep 94	Oct 94	HOW TO NOT USE A COMPUTER (use of dumb terminals for packet radio).
16	Dec 94	Dec 94	WORRYING ABOUT MEMORY (RAM versus hard drive space).
17	Jan 95	Jan 95	VIRUSES REVISITED (account of a virus attack at UWVM).
18	Feb 95	Feb 95	CONVERSATIONS IN A COMPUTER (word processor-operating system/hard drive interactions).
19	Mar 95	Mar 95	XCOPY IS XCELLENT.
20	May 95	May 95	VIRUSES, A REQUEST AND REDIRECTION.
21	Jun 95	Jun 95	SERIAL AND PARALLEL.
22	Jul 95	Jul 95	PORTS, CABLES, SEX AND THE MEDUSA.
23	Aug 95	Aug 95	HARD DRIVE TYPES.
24	Sep 95	Oct 95	MODEMS.
25	Oct 95	Nov 95	WHERE DO YOU BUY, STAN?
26	Nov 95	Dec 95	MONITORS AND VIDEO BOARDS.
27	Dec 95	Jan 96	SURGE PROTECTORS.
28	Jan 96	Feb 96	SECTORS, CLUSTERS, AND LARGE HARD DRIVES (504 mb partition limit).
29	Feb 96	Mar 96	OVERHANG (cluster overhang and partitioning large hard drives).
30	Mar 96	Apr 96	ANY PORT IN A STORM (IRQs and ports).
31	Apr 96	May 96	KEYBOARD KINDNESS (how to disassemble and clean a keyboard).
32	May 96	Jun 96	MAINTENANCE: TEAR IT DOWN AND BUILD IT UP.
33	Jun 96	Jul 96	TURN OFF THAT FILTER (modem downloads and 8th bit).
34	Jul 96	Aug 96	THE BOOT PROCESS (flow diagram left out of BSSS article).
34		Sep 96	THE BOOT PROCESS (entire article reprinted in BSSS, including flow diagram).
35	Aug 96	Oct 96	JUST AMAZING (abilities of computers).
36	Nov 96	Nov 96	SPEED #1: THE DATA BUS (the concept of data bus width).
37	Dec 96	Dec 96	SPEED #2: THE ADDRESS BUS (address bus width).
38	Jan 97	Jan 97	SPEED #3: THE MOTHERBOARD AND PROCESSOR.
39	Feb 97	Feb 97	HOW TO OPEN AND SHUT THE WINDOWS IN 95.
40	Mar 97	Mar 97	PRINTERS.
41	Apr 97	Apr 97	DIVIDE AND CONQUER (overhang, partitioning of hard drives).
42	May 97	May 97	MORE WINDOWS 95 FRUSTRATIONS! (memory hoarding by 95).
43	Jun 97	Jun 97	A LEASH FOR WINDOWS 95 (Partition Magic).
44	Jul 97	Jul 97	A FORMULA FOR DEALING WITH VIRUSES.
45	Aug 97	Aug 97	ANOTHER APPROACH TO WINDOWS 95 DUAL BOOT. (de W9DMK).
46	Sep 97	Sep 97	DOS's INTERNAL AND EXTERNAL COMMANDS.
47	Oct 97	Oct 97	A UNIQUE TOOL FOR BACKUPS (IDE to Parallel Port drive).
48	Nov 97	Nov 97	PACKET RADIO REVISITED.
49	Dec 97	Dec 97	CRITICAL FILE BACKUPS FOR WIN95, PART 1 (myregbak.bat).
50	Jan 98	Jan 98	CRITICAL FILE BACKUPS FOR WIN95, PART 2 (mybasbak.bat).
51	Feb 98	Feb 98	CRITICAL FILE BACKUPS FOR WIN95, PART 3 (mywinbak.bat).
52	Mar 98	Mar 98	IS WINDOWS 95 A VIRUS?
53	Apr 98	Apr 98	CLEAN UP THAT POWER SUPPLY.

Badger State Smoke Signals



WHO THE HELL DID YOU CALL TO COME OVER HERE TO RE-BOOT US?

Wisconsin Amateur Internet Addresses

CALL N9AAA	NAME Norbert P. Aurit	CITY Janesville	E-MAIL/URL naurit@inwave.com www.inwave.com/~naurit
K9AAV	Dennis Dworak	Kewaunee	ddworak@itot.com
KG9AD	Gary Luthardt	Marinette	drwho@cybrzn.com
W0AII	Paul Bittner	Eau Claire	w0alb@eau.net
KC2AK	Stas Waukowksi	Madison	Stask2ak@aol.com
WA9AKV	Dick Schank	New Berlin	drs@mail.gmtcom.com
KG9AL	Mike Jesse	Shawano	kg9al@wi.frontiercomm.net
AF9B	Bill Fletcher	Madison	bfletcher@mail.state.wi.us
AA9BB	Jim Wiskow	Arcadia	jcwiskow@win.bright.net
N9BBQ	Lloyd J. Peterman	Salem	lpeterman@acronet.net
N9BGH	Steve Bukosky	Waukesha	sbukosky@execpc.com ourworld.compuserve.com/homepages/sbukosky/
AA9BJ	Tom Hetzel	Sheboygan	aa9bj@excel.net
KA9BLI	Jacob Dereanne	Luxemburg	ka9bli@itot.com
KG9BO	Josh Housey	Sheboygan	lhousey@excel.net
K8BP	Clarke W. Cooper	Two Rivers	k8bp@juno.com
N9BQM	Joel Papke	Pittsville	n9bqm@juno.com
WA9BQW	Jule Kish	La Crosse	wa9bqw@juno.com
KB9BYP	Jeff Schmeichel	Appleton	kb9byp@execpc.com
N9CK	Steven J. Franzen	McFarland	N9CK@ixpress.net
N9CLG	Ed Pliner	Pittsville	n9clg@badger.tds.net
KF9CS	Mark Heimmermann (WAR Secretary)	Appleton	kf9cs@execpc.com www.execpc.com/~kf9cs
KG8CX	Ed Engelman	Menominee, MI	KG8CX@webtv.net
KA9D	William G. Menzel	Wisconsin Rapids	menzelw@wctc.net www.wctc.net/~menzelw
KB9DAC	Kevin King	Shawano	kb9dac@juno.com
N9DG	Duane Grotophorst (ex KA9HKL)	Sauk City	dgrotophorst@jvlnet.com
K9DHR	Ade Van Der Burgt	Kaukauna	avdb@juno.com
N9DJY	Judy Papke	Pittsville	n9djy@juno.com
N9DMS	Dave Schaeffer	Madison	n9dms@globaldialog.com
N9DXZ	Dave Asplin	Marshfield	asplind@dgabby.mfldclin.edu
K9EF	Woody Minar	St. Croix Falls	WISBRED@aol.com
W9EH	Bob Burgermeister (ex WB9IJY)	Kenosha	burgerb@execpc.com
N9EIL	Debra Kroll	Wisconsin Rapids	n9eil@tzn.net
KB9ENO	Bill Niemuth (WAR Vice Chair.)	Hortonville	bnemuth@execpc.com
KA9EOX	Jack Tinsman	Shawano	ka9eox@juno.com
KB9EQI	Karl E. Simonson (VE Adams Co. ARC)	Necedah	kb9eqi@iname.com
WD9ESU	Larry Shields	Lodi	larrysh@tts.com
NX9F	Jim Ley	Menomonie	ley@uwstout.edu
K9FA	Dick Lemme (ex KB9FA)	Oshkosh	lemme@vbe.com
KE4FE	Gary Day	Rib Lake	ke4fe@newnorth.net
K9FHI	Roy Pedersen (Section Mgr. ARRL)	Juneau	k9fhi@tccom.net
KA9FOX	Scott Neader	Onalaska	neader@centuryinter.net www.QTH.com/ka9fox
K9FZ	Al Lapinski (ex AA9MP)	Hudson	alap@pop3.spacestar.net
N9GAF	M. L. "Pete" Deets	Madison	15.pd@madison-business.com
W2GC	Jim Cronn	Two Rivers	cronn@jwc.cftnet.com
KA9GCW	Jim Kline	Ogema	jkline@centuryinter.net
K9GDF	Rich Regent	Milwaukee	rich.regent@bbs.pid.org
W9GF	Jerry Fadness	Stevens Point	maingan@coredcs.com www.coredcs.com/~maingan
KG9GH	Eric Janssen	Marinette	kgninegh@mrnet.com
N9GHZ	Mike Schoenfluss	Abbotsford	muzikman@pcpros.net www.pcpros.net/~muzikman
N9GJJ	Eugene Tetzlaff	Holmen	ETHOLMEN@AOL.COM
N9GLG	Debbi King	Eau Claire	kingdr@uwec.edu
W9GM	Ken Weigel	La Crosse	w9gm@execpc.com
WA9GON	Gerry Radtke (Fox Cities ARC)	Appleton	geradtk@execpc.com
N9GQK	Harry W. Goodwin	Green Bay	n9gqk@dcet.com
K9GS	Gary Schwartz Greater Milw DX Assn	Mukwonago	garyk9gs@solaria.sol.net
K9GU	Michel Y. Roy	Baileys Harbor	mroy@itot.com
WB9GYT	Rick Kinsell	Milwaukee	rkinsell@execpc.com
WJ9H	Tom Weeden	Madison	tcweeden@execpc.com
KB9HAM	Don Parkinson	Racine	deprknan@execpc.com
W9HAM	Randy Dyle (ex KZ9O)	Green Bay	randyle@netnet.net
WD9HAS	Skip Voros	Milwaukee	svoros@execpc.com
WD9HFT	Gale Sorum	Chippewa Falls	gsorum@discover-net.net
WD9HOD	Ray Vollrath (WAR Editor)	Cedarburg	rcv@execpc.com
W9HWQ	Duane Fruechte	Trempealeau	w9hwq@win.bright.net
WF9I	Tom King	Eau Claire	kingtw@uwec.edu
KG9IA	Bob Jones	Placerville, CA	darshon@hotmail.com
W9IBQ	Bob Selbrede	West Salem	BobSelbrede@centuryinter.net
KL7IBV	Larry Faehling	Clintonville	kl7ibv@amsat.org
KB9IQL	Marty Werner	Medford	mwerner@waun.tdsnet.com
N9IQZ	Janice Schaden (Manorad Club)	Two Rivers	schaden@mail.tcbl.com
W9IXG	Don Michalski (Official Observer)	Madison	dem@sal.wisc.edu
N9IXO	Ralph Gray	Richland Center	rgray@mwt.net
K9JIG	Denis Christopherson	De Pere	k9jig@execpc.com
WD9JIM	John VanMeter	Clintonville	jvanmet@cll.fullfeed.com
KE9JJ	Ed Seruga	Waterford	ke9jj@aol.com
WA9JMO	Larry McCalvy	Racine	wa9jmo@wi.net
K9JMP	Bob Garske	Poynette	garskeb@tts.com
WA9JOB	Nels Harvey (WAR Chairman)	Mequon	nhar@execpc.com
KB9JQS	Dennis E. Bahr	Madison	bahr@ixpress.net www.bahr.com
N9JRC	Adam G. King	Eau Claire	kinge@overlord.edp.net
K9JT	Jim Taylor	Madison	jtaylor@videoterm.com
N9JXB	Carl Lassanske	Wautoma	n9jxb@wirural.net
K9JYX	Don Evenson	Baraboo	donk9jyx@midplains.net
WA9KEC	Roy Hawkins	North Prairie	wa9kec@juno.com
KB9KEF	Bernie Kopp (Skywarn)	Milwaukee	bkopp@execpc.com www.execpc.com/~bkopp
WA9KFL	Pete Tillema	Mount Pleasant	petetillema@juno.com
WA9KFR	Walter Stasiowski	Port Washington	wa9kfr@pitnet.net
W9KKM	Fred Becker	Wisconsin Dells	fbecker@midplains.net
KA9KLZ	Art Evans	Cuba City	aevans@mhtc.net
KB9KM	Lee Pogue	Oshkosh	pogue1@vbe.com
KB9KSR	Larry Deltcher	Wisconsin Rapids	kb9ksr@tzn.net
N9KY	Bill Witt	Milwaukee	bwitt@execpc.com
KB9LAC	Robin Helman	Onalaska	gfarobin@aol.com
KA9LAQ	Mike Pagel	Amherst	mpagel@uwp.edu
N9LEA	Jason Hanson	Madison	jhanso1@students.wisc.edu
N9LHX	Seth T. King	Eau Claire	kinge@overlord.edp.net
N9LIA	Jacob Klein	Wausau	n9lia@pcpros.net
WB9LKC	Ray Sommers	Custer	rsommers@coredcs.com
N9LOO	Brian Skrentay	Jackson	n9loo@execpc.com www.execpc.com/~n9loo
AA9LV	Francis A. Goettl, Jr.	Elkhart Lake	fgoettl@excel.net
K9LWI	Lawrence Steeno		lsteeno@execpc.com
N9LWJ	Jan Garske	Poynette	jgarske@tts.com
KB9LYT	Kris Scheppe	Sheboygan Falls	socrates@tts.net
W9LZQ	Ken Helman	Onalaska	khelman@centuryinter.net
W9M	Gary Sharbuno (Badger Examiners)	Brown Deer	w9m@execpc.com
K9MA	Scott Ellington	Madison	sellington@sec.wisc.edu
KE9MA	Gene Kroll	Wisconsin Rapids	ke9ma@tzn.net
WB9MFC	Marilyn Lassanske	Wautoma	wb9mfc@wirural.net
N9MKJ	Bill Rupp (Milw. Foxhunt Club)	Franklin	wrupp@execpc.com www.execpc.com/~wrupp
KB9MKP	David DePover	Juneau	kb9mkp@tccom.net
K9MLD	Joel Eschmann	Hartford	joelwi@connect.net
AA9MT	Glenn De Baker	Mantowoc	gdebaker@lakefield.net
W9NFL	Keith Belongia (ex N9PBA)	Racine	keithbel@execpc.com www.execpc.com/~keithbel
N9NGH	Jim Phillips	Hudson	n9ngh@amsat.org

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"coordination frequencies" for use when the Skywarn systems are operating, these will be the primary repeaters used for the transmission of reports, from local nets, in and out of the Sullivan NWS office. In South-central Wisconsin the coordination frequency will be 147.150, while in Southeastern Wisconsin the coordination frequency will be 145.130. Secondary coordination frequencies (in case a primary fails or informational overflow), the local Skywarn repeater systems (which feed the coordination frequencies), and a administrative frequency were also documented. It was further agreed that the local individual nets should feed their reports to the coordination frequency providing the best coverage in their area. Packet and E-mail formats will be established and encouraged for sending reports that are not time sensitive.

In South-central and Southeastern Wisconsin the Nexrad Weather Service Forecast Office is located in Sullivan, which is about 30 miles West of Milwaukee. The Sullivan office has County Warning Authority, (CWA), for the following counties; Columbia, Dane, Dodge, Fond Du Lac, Green, Green Lake, Iowa, Jefferson, Kenosha, Lafayette, Marquette, Milwaukee, Ozaukee, Racine, Rock, Sauk, Sheboygan, Walworth, Washington, and Waukesha counties. Thus any severe weather warnings for the above mentioned counties originate from the Sullivan office, and all spotter reports are relayed to that office.

Additional Wisconsin NWS forecast offices are located in Green Bay and in the La Crosse area. The Green Bay office has responsibility for counties in the Northeastern part of the state and the La Crosse office serves counties in the Southwestern area. Other forecast offices in the Minneapolis and Duluth areas serve parts of West-central and the Northwest corner of the state, respectively. Check with the Warning Coordination Meteorologist at the nearest NWS office to determine the county warning authority in your region.

REPORTING CRITERIA AND REPORTING PROCEDURES

The reporting Criteria and Procedures for all local nets in South-central and Southeastern Wisconsin should be identical. This was done for ease of reporting when mobile or on assignment in an area other than your local net.

REPORTING CRITERIA

Unless otherwise requested by the Net Control Station, the following NWS requested weather events should be reported:

- Tornadoes
- Waterspouts
- Funnel clouds - **Be sure of your observation!**
- Wall clouds - **Be sure of your observation!**
- Winds - Measured or Estimated at 40 MPH or more (58 MPH triggers a Severe Thunderstorm Warning)
- Hail - Measured or Estimated at 1/4" or more (also report any accumulations, ground covered, etc. 3/4" or larger hail triggers a Severe Thunderstorm Warning)
- Damage - Due to straight-line or tornadic winds
 - Size/number of trees/limbs downed
 - Power lines down ?
 - Structural damage ?
- Flash Floods/Dam Breaks
 - Extent/amount
 - Roads washed out?
 - Bridges/Railroads undermined?
 - Structural Damage?

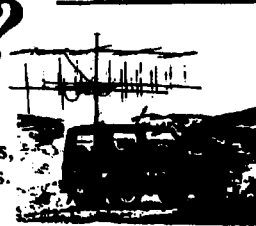
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PortaPole?

• 26.3 ft Max • 5.5 ft Min • 8.5 lb •

Telescoping Aluminum Mast holds yagis, corners, parabolas, rotators, beams, wire antennas. Easy to carry, install... \$135 Park-on base support... \$70

AntennasWest Info S&H: \$12 pole \$6 base \$1 Order Hotline: Box 50062-W, Provo UT 84605 801-373-8425



Sewfars Swapfest

Sunday, March 8, 1998

8 a.m. to 2 p.m.

Setup starts at 6 a.m.

WAUKESHA COUNTY EXPO CENTER

Admission: \$4.00 advance, \$5.00 at door

Reserved tables: 4 feet, \$5.00 • Electrical outlet: \$5.00

AMATEUR LICENSE EXAMS

Reservation deadline: February 23, 1998

Mail with SASE. Make check payable to SEWFARS, Inc.

Send to P.O. Box 102, Delafield, WI 53018

Info: (414) 358-1008 • mjadams@execpc.com

Web: <http://www.execpc.com/~mjadams/SEWFARS.html>

Wisconsin Amateur Internet Addresses

Continued from page 7

AA9NM	Bob Pratt	Nemah	Baa9nm@aol.com
W9NNS	Rev. Bill Jablonske	Weston	wjablon@mtc.net
KB9NNV	Nathan A. Luthardt	Marinette	MortalKombat@mari.net
			http://mari.net/subzero
N9NOF	Keith Summers	DePere	keiths@dcct.com
N9NTB	Mack Brophy	San Prairie	dmb@execpc.com
K9NW	Mike Tesmer	La Crosse	K9NW@aol.com
N9OEQ	Chuck Hanson	Appleton	crhanson@athenet.net
KB9OFK	Mark Casellius	Onalaska	drmarkdc@aol.com
K9OGT	John Klein, Jr.	Beaver Dam	johanklein@itol.com
N9OIG	Kevin Drisel	Union Grove	n9oig@wi.net
KB9OKM	Jason Matthias	Ashland	MJ3721@wheeler.northland.edu
K9OQO	Jim Sheets (WAR Treasurer)	Appleton	k9oqo@aol.com
W9OVO	Clayton Cardy	Sturgeon Bay	w9ovo@itol.com
KB9PCW	Austin Kyser	Appleton	kb9pcw@callsign.net
N9PHF	Dawn Bergs	Wausau	dbergs@juno.com
W9PHF	Ray Greisinger	Green Bay	GREISINGR@UWGB.EDU
N9PHS	Wes Jones	Shell Lake	n9phs@sydian.net
WA9POV	Dave Kaas	Grafton	wa9pov@execpc.com
			www.execpc.com/~wa9pov
N9PQN	Marytym Franzen	McFarland	N9PQN@ixpress.net
N9PQU	Jeff Rymer	Pound	jrymer@ez-net.com
K9PT	Dean Andrewjeski (ex AD9W)	Mosinee	andrewjeski@pcpros.net
W9PVD	Gordon Lauder	Webster	w9pvd@win.bright.net
N9PQ	Eugene F. Schultz	Sheboygan	gene183@juno.com
WB9QBA	George Gruetzmacher	San Prairie	grgruetz@vms2.macc.wisc.edu
KA9QFJ	William H. Hommel, III	Baraboo	billh@baraboo.com
KB9QGE	Dave Christel	La Crosse	kb9qge@qsl.net
			www.qsl.net/kb9qge/atv.html
KB9QOE	Jeff Kane	Thiensville	jkane@execpc.com
			www.execpc.com/~jkane
WB9RBP	Jim Staatz (ARES/SKYWARN)	Eau Claire	WB9RBP@aol.com
K9RI	Ray Wolfe (ex WB9LST) (Kenosha EC)	Kenosha	wolfeman@execpc.com
AA9RK	Mike Falk	West Allis	mj127@iastate.edu
			http://ods.ods.net/ketchup/index.htm
N9ROY	Rick Plouffe	Wisconsin Dells	rplouffe@midplains.net
WB9RQR	Stanley Kaplan (OZARES EC)	Port Washington	skaplan@post.its.mcw.edu
N9RSU	Leroy A. Dick, Sr.	Eau Claire	n9rsu@werewolf.net
K9RTB	Bob Klein	Luxemburg	bklein@itol.com
W9RTP	George K. Stanek	Edgerton	w9rtp@juno.com
WB9SBD	Joe Mayenschein	La Valle	mayenk@mtw.net
WA9SFH	Jerry Thompson	Brown Deer	jerthomp@execpc.com
AA9TB	Mariann Littell	Glendale	mariann@csd.uwm.edu
N9TNW	Bill Vincent	Kimberly	wvvincent@execpc.com
N9TPY	Richard Swierczynski (Skywarn)	Milwaukee	richardj@omninet.uwm.edu
WB9TYT	Dan Bolander (WAR Freq. Coord.)	Milwaukee	bolander@execpc.com
NE9U	Scott Jasper	Plover	jasper@tccom.net
N9UAK	Lois Wise	Tomahawk	wisewynn@newnorth.net
N9UBQ	Roland Sacho	Medford	trcmlepc@waun.tdsnet.com
KC9UC	Bill Bergs	Wausau	bbergs@dwave.net
N9UDO	Steve Schulze	Baraboo	steven9udo@baraboo.com
			www.thelorax.com/~schulze
N9UDX	Wayne Burgess	Madison	n9udx@midplains.net
KE9UE	Tom Kinney	Tomahawk	tkinney@newnorth.net
W9UGT	Bill Aspinwall	Lodi	w9ugt@compuserve.com
N9UNR	Dave Barrow	Cedarburg	n9unr@execpc.com
N9UPU	Joe Tenor	Green Bay	jtenor@sparknet.net
			www.sparknet.net/~jtenor/gbasfg.html
K9UTQ	Gene Sanicki	Wisconsin Rapids	k9utq@wrtc.net
N9UXG	Sue Wiskow	Arcadia	jcwiskow@win.bright.net
N9VFZ	David Cooley	New Holstein	dcoole@fdldotnet.com
K9VSO	Jim Bressee	Madison	k9vso@itil.com
N9VST	Mac Funkhouser	Ripon	mlee@fdldotnet.com
AA9W	Ed Rate	Maquon	edrate@execpc.com
WB9WBN	Gerald Werner	Marshfield	wernerg@dgabby.mfldclin.edu
N9WBR	Jeff Ramlow	Amherst Junction	ramlow@wi-net.com
KB9WC	Jack Bruner	Markesan	jlbrenner@juno.com
K9WD	Steve Schwoigler	Wisconsin Dells	sws@baraboo.com
K9WI	John Kaiser	Oshkosh	jkaiser@vbc.com
K9WIX	Clancy Meneau (Manitowoc Co. RACES)	Kellnersville	cmeneau@mail.tcbl.com
N9WUN	Charles Savard (Manitowoc Club)	Manitowoc	csavard@juno.com
N9WVD	Kirt Krause	Iola	n9wvd@geocities.com
			www.geocities.com/CapeCanaveral/Lab/8279
KA9WXN	Dave Schank	New Berlin	drs@mail.gmtcom.com
W9XX	Ronald Schaden (Manitowoc Club)	Two Rivers	rschaden@mail.tcbl.com
KA9YAW	Wes Michael	Green Bay	Ka9yaw@aol.com
W9YCV	Lester Peterson	Greenfield	LesW9YCV@aol.com
N9YJJ	Bruce Schaffer	Augusta	n9yjj@discover-net.net
N9YLS	Lee Housley	Sheboygan	lhousley@excel.net
W9YOA	Jack Klein	Beaver Dam	jklein@peoples.net
WB9YSD	Steve Polishinski	San Prairie	wb9ysd@smallbag.com
WA9YVE	John Givens	Ixonia	wa9yve@globaldialog.com
N9ZET	Fred Diedrick	Edgerton	fred_diedrick@jadedbs.com
KB9ZJU	Phillip N. Lodde	Sheboygan Falls	plodde@excel.net
N9ZLU	Jim Bailey	Nellsville	liljim@badger.tds.net
KA9ZPY	Arne Motness	Racine	amotness@execpc.com
K9ZUM	Mike Grady	Mountain	k9zum@juno.com
K9ZZ	Jim Romelfanger	Baraboo	smokesigs@baraboo.com
			liljim@badger.tds.net
Black River Wireless Assn.			www.coredcs.com/~maiden/cwra.htm
Central Wisconsin Radio Amateurs			www.danenet.wicp.org/~ares
Dane Co. ARES			www.execpc.com/~kf9cs/scr.htm
ECResources, Ltd.			WB9RBP@aol.com
Eau Claire Amateur Radio Club			www.ecarc.org
			www.tpo.org/fcarc
Fox Cities Amateur Radio Club W9ZL	Appleton		http://members.aol.com/staskc2ak/
Madison Amateur Radio Clubs	Madison		MMARClub@aol.com
Marinette/Menominee ARC			http://members.aol.com/mmrcclub/
			svoros@execpc.com
Milwaukee Area SKYWARN Association	Milwaukee		www.execpc.com/~svoros
			www.uwec.edu/Academic/Outreach/Morse2000/morse2000.html
Milwaukee Area Amateur Radio Society	Milwaukee		http://tbcnet.com/~davidc/nss/nss.html
Morse 2000 Project	Eau Claire		www.execpc.com/~thellman/Ozaukee.html
Near Space Sciences			www2.wi.net/~hamradio/
Ozaukee Radio Club			http://discover-net.net/~tazman/rcrainfo/rcrainfo.html
Racine Megacycle Club	Racine		www.lse.fullfeed.com/~rarc/rarc.htm
Red Cedar Repeater Association			www.sai.wisc.edu/spaceplace
Riverland Amateur Radio Club	La Crosse		www.nconnect.net/~wcrc
UW Space Place Amateur Radio Center	Madison		wa9yve@globaldialog.com
Washington County ARC			wa9pov@execpc.com
Watertown Amateur Radio Club	Watertown		www.execpc.com/~wa9pov/warac.html
West Allis Radio Amateur Club			nhar@execpc.com
			www.gmtcom.com/war
Wisconsin Association of Repeaters			RACES@DMA.STATE.WI.US
Wisconsin Emergency Management EOC	Madison		www.thelorax.com/~schulze
Yellow Thunder ARC	Baraboo		

Updated 02/12/98
Complete listing

Note that e-mail addresses and Web URLs may be case sensitive.

Send additions and changes to wa9pov@execpc.com.

This list is also available at www.execpc.com/~wa9pov/bsslist.html.

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- Urban & Small Stream Flooding
Water over curb?
Water out of bank?
Roads closed?
- Visibility - When less than 1/2 mile, from precipitation or blowing dirt
- Rainfall Amounts - 1" or more in a short time period

Reports are needed at all times, prior to, during, and after a severe weather event.

REPORTING PROCEDURES

Unless otherwise requested by the Net Control Station, the previously listed weather events should be reported as follows:

Mentally prepare or rehearse the following sequence:

1. Station Calling: [Call Sign and Event]
2. Net Control: [Call suffix, Go ahead]
3. Station Calling: [Time, Location, Condition]
4. Net Control: [QSL, all parties]

EVENTS: Tornado, Waterspout, Funnel cloud, Wall Cloud, Winds, Hail, Damage, Flooding, Visibility, Rainfall

Example:

1. "WD9HAS...Hail"
2. "H-A-S, Go ahead"
3. "At 4:35 PM, Milwaukee County, Hwy. 100 and Greenfield Avenue, measured 3/4 inch hail."
4. "Roger, Net Control...Clear. "Weather Service, Roger."

Your transmission is now complete, but be available for follow up information, as requested by Net Control. If you have a follow-up report, use: Call sign and "FOLLOW-UP."

With all reports, remember that accuracy is first and speed is second. Also, when you push the button: We are amateurs in name, but professionals in our presentation. One bad sounding report can ruin the efforts of 10 good reports. Last, we never criticize a spotter or NCS on the airwaves.

Statistics show severe weather is the most common emergency situation in which Amateur Radio operators are called into service. More important, those same statistics show that severe weather is the most common emergency which could effect your community and family. It is for this reason we encourage all amateur operators to participate in NWS supported training programs and help organize a local severe weather net.

For additional information, contact WD9HAS at:

svoros@execpc.com

or KB9OFI at:

dschober@nconnect.net

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Have you considered becoming an ARRL Volunteer Examiner? If you are 18 or older, and are presently a General, Advanced, or Extra class licensee, the ARRL/VEC would be glad to hear from you. Feel free to contact the ARRL/VEC at (800) 927-7583 and request our Prospective VE Packet. Very 73 to all my friends in Wisconsin!

Bart Jahnke, W9JJ/I • ARRL/VEC Manager

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Five Special Event Stations to operate for Wisconsin Sesquicentennial

Five special event station operations will be operating on diverse dates in observance of our state's 150th birthday. The information given here is still not complete. We do expect to have all the data for publication next month. But, for now, here's the list:



W9B - Belmont

Belmont, in southern Lafayette County, was the state's territorial capitol, then became the first state capitol in May, 1848. This operation is still in the formative stages. It appears that Dane County ARES and a club in the southwestern part of Wisconsin will be operating. Full details next month.

W9I - Green Bay

Dates: May 22-30.

Times: Various on weekdays, 1600 UTC - 0400 UTC on Friday, Saturday, and Sunday.

Bands: Lower 25 kHz of general bands, 28.390, national calling freqs on 2M (FM and SSB), 6M, and 70 cm.

Modes: Phone and CW.

Certificate information: 9 x 12 SASE, business size SASE, or send a dollar and we will provide envelope and postage. Send to KS9WI, Keith Summers 918 Bluebird St., De Pere, WI 54115.

Sponsor: Green Bay Mike and Key Club.

W9S - Madison

Dates: May 2 through May 10; 9 a.m. to 9 p.m. at Space Place on the UW-Madison campus. Red Cross will be the secondary site, with operation times of 9 a.m. to 5 p.m. Wisconsin Emergency Management will, also, have a limited operation schedule.

Bands: 25 kHz above lower edge of General subband on HF. 10 meters: 28.325. 2 meter FM: 146.55; 51.25 and 144.200 SSB.

Modes: All modes: voice, CW, packet, APRS.

Note: All operator classes welcome to operate as guests from around the State.

Operator sign up website:

<http://www.globaldialog.com/kb9rrm>

and keep up with the news at the FLARC website: <http://members.aol.com/staskc2ak>

Sponsor: Four Lakes Amateur Radio Club, Don Michalski, W9IXG, chairman.

Certificate or QSL: Certificate, \$1.00 to UW Space Place, 1605 South Park Street, Madison, WI 53715. QSL, SASE to same address.

W9W - 45/90 Marker near Wausau

Date and time: Statehood Day, Friday May 29th, 6:00 p.m. until Saturday, May 30th 6:00 p.m. (May 30 0000Z - 2400Z). Operation will be at the 45/90 marker, which is also the corner of four grid squares, 44, 45, 54 and 55. (This is where the 90th meridian and the 45th parallel intersect.)

Bands and Mode: SSB: 14.275, 21.325, 28.475, 51.25 and 144.200.

Certificate: SASE to Wisconsin Valley Radio Association, P.O. Box 363, Wausau WI 54402-0363.

In the Works

A special event operation will be on the air from Adams County in June. This is a work in progress, and details are being set. More next month.

New Products

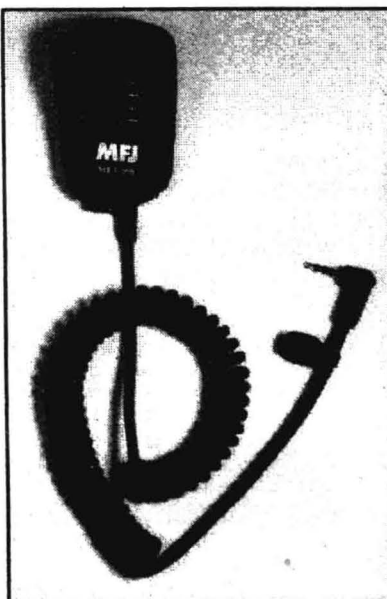
MFJ-295Y Yaesu MiniSpeakerMic™

MFJ's new *Mini YAESU SpeakerMic™* uses a high-quality non-directional Electret condenser microphone to give your Yaesu handheld radio superb crystal clear audio. And it is just \$15.95.

This is an incredible speaker microphone for those incredible and popular Yaesu handheld transceivers. A built-in earphone jack lets you plug in an external earphone for private listening - you won't bother anyone! The PTT thumb switch is perfect for heavy use - it'll withstand even the most talkative hams!

An 8-position swivel lapel clip lets you position and secure the microphone to your short or coat comfortably. 3 1/2 feet of durable, stretchable cord has extra molded plastic insulation around the bend points. This high-quality microphone in the perfect companion to your Yaesu FT-10R, FT-40R, FT-50R, or VX-1R handheld transceiver. It's super light weight, has superb receive and transmit audio, and is made of high-impact plastic that is water-resistant - use it rain or shine without worry. MFJ's mini mic uses a 1/4 inch speaker to produce 83dB of crystal clear audio. Impedance is 8 ohms. The non-directional electret condenser microphone has -53dB sensitivity and 1 K Ohm impedance.

The MFJ-295Y is protected by MFJ's famous *No Matter What™* one year limited warranty. That means that MFJ will repair or replace (at our option) your MFJ-295Y for one complete year.



MFJ-641 RapidBattery™ Universal Chargers

The MFJ-641 *RapidBattery™* Charger is a battery charger with both quick and trickle charging, and will charge Ni-Cd or Ni-MH battery packs, and is priced at \$49.95.



MFJ's battery chargers use MFJ's exclusive technology to examine whether the battery is fully charged, thus overcharging can be avoided and the life span of the battery can be prolonged.

These chargers use universal interchangeable charging slots for fast, simple drop-in charging. MFJ's battery chargers are supplied with one charger slot (select model from chart in catalog). You can buy extra charging slots for your different radios and drop them in for fast and simple drop-in charging. Extra slots are \$12.95 each.

Charging status LED indicators tell when your battery is fully charged. Microprocessor charging control technology stops the charging circuit when fully charged. This prolongs the life span of your battery and overcharging is avoided. An automatic switch from quick to trickle charge is available when needed. The charger measures a compact 3 1/2 x 5 1/2 x 3 inches.

The MFJ-641 is protected by MFJ's famous *No Matter What™* one year limited warranty. That means MFJ will repair or replace (at our option) your MFJ-641 for one complete year.

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Tri-County Amateur Radio Club Presents: HAMFEST 1998

to be held on
Sunday, March 15

at the
**Jefferson County Fairgrounds
Activity Center**

**Hwy. 18 West, Jefferson, WI
from 8:00 A.M. until 2:00 p.m.**

Testing - New or Upgrade
Good Food

Electricity Available

Equipment Test Table (Does it work? Try it out)

A SPECIAL NOTE TO VENDORS:

- Special needs can be handled if we are contacted in advance.
- Vendors will be admitted at 7 a.m. - OTHERS AT 8 A.M. ONLY.
 - Vendors - Please unload at northwest side door.
- Vendors only parking will be provided for unloading. (PLEASE... NO EARLY SALES - Thank you.)

Plate Lunches and Beverage provided by Jefferson County 4-H.

HANDICAP ACCESSIBLE!

TALK IN ON THE 145.49 REPEATER

ADMISSION: \$4.00

6-Foot Table Space - \$5.00 • 8-Footers - \$6.00

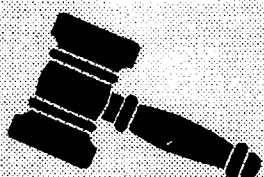
RESERVE YOUR SPACE EARLY!

SEND YOUR SASE TO: TCARC, W9MQB
711 East Street, Fort Atkinson, WI 53538

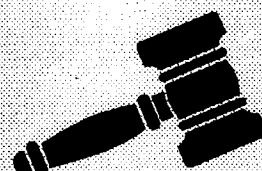
*414-563-6502 evenings

*Area code will be 920 as of 8/1/97

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PARTICIPATING CLUBS AND ORGANIZATIONS



Wisconsin Valley Radio Association

Kim Kunze, N9SDL, Secretary

P.O. Box 363 • Wausau, WI 54402

Six Meter Repeater: 51.19 Input/52.89 Output

MEETING MINUTES February 3, 1998

The meeting was called to order by Jim N9SDI. Members present were N9SDL, KB9DZG, KB9FRB, N9IAB, N9TTA, KB9MCZ, N9NRC, KB9DED, N9NMH, WD9CPY, N9QAF, N9PHC, N9LIA, KA9DQO, N9NQD, N9OWD, KB9OUC, N9MEA, KB9RWY, KB9RXA, KB9RXB, and KB9RWW. Visiting were John Janeczko and KU4IQA, Kevin.

The minutes from last month's meeting were approved from a motion by KB9DED and 2nd by N9LIA.

Treasurer's report was approved after a motion by N9LIA and 2nd by N9TTA.

Byron Morton from WAOW TV 9 was our guest speaker and presented information and video on tornadoes. A plaque was presented to Byron in appreciation of his taking time to share his experiences with us.

We will be conducting Dream Flight Wausau Communicator training for 5th graders of the Wausau School District in March and April (3/17, 3/31, 4/2 and 4/9). Please offer to help with this training. Dream Flight week will be the 4th through the 8th of May. We have a new HF antenna for the HF station as well as a new elementary school added to the list this year. We will be operating UHF voice and packet as well as Amateur TV from the elementary schools. We will be looking for volunteers for helping out that week at Mission Control with what ever time you can spare. It is a great time and we have some hams already signed up for the whole week!! We need your help to pull this off!!

Under old business the status of the 6 meter repeater was discussed. It has been worked on and in the final stages of completion. It was discussed that it will need a power supply and that we can use the club's 50 amp power supply.

The club received the ARRL video library of nine tapes for use as club programs and for ham class. The ARRL approved making copies of the tapes for the Marathon County Public Library. Copies have been made and a set will be taken to the library.

We will be having a club sponsored Special Event Station for the 150th celebration of Wisconsin's Statehood and operating as W9W. We will be operating at the 45/90 marker which is also the corner of four grid squares, 44, 45, 54, and 55. The date will be Friday, May 29th, 6:00 p.m. until Saturday, May 30th, 6:00 p.m. (May 30 0000Z - 2400Z). We will be operating in the lower 25 Mhz of the General portion of the 10, 15, and 20 meter bands as well as 51.25 SSB and 144.200 SSB. Operators interested, see a board member. Greg, KB9MCZ, will be taking photo of the event for our article for BSSS. A certificate will be provided to confirmed contacts and receipt of a 9 x 12 SASE.

Gary, WD9CPY, has made contact with the D C Everest Metro Police Department and they are very interested in our ability to provide emergency communications and weather spotting. More discussion will take place.

New Business

The WVRA will be sponsoring the second annual Dream Flight Wausau Special Event Station during the week long event in the Wausau School District. We will be operating in the lower 25 kHz or the General portions of 10, 15 and 20 meter bands from 1400 to 2000 UTC daily, May 5th through the 8th. A certificate will be provided to confirmed contacts and receipt of a 9 x 12 SASE.

Camp Phillips has been reserved for our use for Field Day this year. Please mark your calendars for this event June 27 - 28, 1998.

The application for ARRL Special Service Club status has been completed and will be mailed this week.

The program for the March meeting will be a presentation by our ARRL Section Observer. Please note the meeting location is at Wausau Metals for March.

The meeting was adjourned after a motion from N9LIA and 2nd from N9TTA.

Respectfully submitted:
Kim Kunze, N9SDL

The Racine Megacycle Club



Club Station W9UDU • Racine, WI

ARRL Affiliated

Providing Communications for American Red Cross and ARES

Mary Urban, N9ZWE, Secretary

c/o RMC • P. O. Box 3 • Racine, WI 53401-0003



MEETING MINUTES February 9, 1998

status.

NEW BUSINESS

The meeting was called to order by President Rees Roberts, K9UUT, at 7:28 p.m. There were 16 members in attendance.

A motion was made by Paul, N9RGW, to dispense with the reading of and approve the minutes as published in the *Badger Smoke Signals*. It was seconded and voted in favor of.

Per President Rees, K9UUT, there will be a more concise reading of the minutes, in the forms of motions and what was actually accomplished and the rest can go into the BSSS as normal.

Dave, AA9HL, gave the treasurer's report. Paul, N9RGW, moved to accept the treasurer's report as read. It was seconded and voted in favor of.

OLD BUSINESS

Lee, N9VNU, talked about the Wisconsin QSO party.

Larry, WA9JMO, spoke of the upcoming Amateur Radio Banquet and Ham Class.

Rees, K9UUT, gave updates on the new Web site.

K9UUT received acknowledgement of our request for the 501(c)(3) tax exempt

The board has created an inventory committee to consist of Dave, AA9HL, and Greg, KB9RMA. They will also be on the committee in charge of checking out the equipment.

Volunteers are needed for Field Day. Dave, AA9HL, is in charge of the food and beverages.

Volunteers are needed for future programs.

Bob, W9EH, announced that the coax going to the rear tower is on the ground.

Pete, KB9LXM, questioned opening the radio room for use on the weekends and following up on holding our meetings at Gateway Technical Institute. Rees, K9UUT, stated the rumors of our having to move our meetings are exaggerated and, due to security reasons, the board has decided to follow the Red Cross recommendation not to utilize the building on the weekends. This includes the Wisconsin QSO party.

A motion was made and seconded, and voted on to adjourn the meeting a 8:00 PM.

W0WLN gave a presentation on antennae after the meeting.



e.c.a.r.c.

eau CLAIRe

AMATEUR RADIO CLUB

Burch Kelly, KB9RBN, Secretary

P.O. Box 1867 • Eau Claire, WI 54702-1867

146.91 • KB9RRA • 147.24 • <http://www.ecarc.org>

MEETING MINUTES Tuesday, February 10, 1998, 7:30 p.m., Eau Claire Parks and Recreation Building

Tim, KB9JOE, opened the meeting. Burch, KB9RBN, synopsized the January minutes. They were approved as read.

Also noted was that information about the Ninth Annual Midwest Renewable Energy Fair in Amherst and the Sesquicentennial ham opportunities continue to be sent over the InterNet and through *Smoke Signals*.

Jim, WB9RBP, discussed the current ECARC financial statement.

The ECARC 1998 Membership roster was published and made available at this meeting.

OLD BUSINESS

Tim, KB9JOE, discussed the election of the Directors to take place at this meeting. Ballots were handed out to be completed during the meeting.

NEW BUSINESS

Bruce, N9YJJ, discussed the technical possibility of using old voice pagers for various club projects, including Skywarn, and projects to encourage kids to listen to the 146.910 repeater. These could be used as an incentive as they are learning about amateur radio and before they can afford a radio. Pagers can be modified for the appropriate frequencies. The tone type

paggers can be set up to alert people to bad weather and activation of the weather net.

Burch, KB9RBN, brought up the need to get information out to local business and other locations that can publicize the club, upcoming exams, the Hamfest and other activities. It was suggested that a marketing brochure be considered such as a fan-fold brochure with photographs. It was also suggested that individuals might head up efforts in various areas that might benefit the club. Tim, KB9JOE, volunteered Burch, KB9RBN, as chairman for marketing effort.....

KB9RBN also brought up the report provided in October by the committee as reported by WD9HFT about opportunities the club should consider. The results of this committee's effort should be explored.

A disaster drill will be held at Eau Claire Airport by the Red Cross, ARES, and others in October. More information will be coming. ECARC members can help. In March, a meeting will be held in Eau Claire with National Red Cross, FAA, and others participating in the drill.

Tim, KB9JOE, suggested that additional antennas be acquired and installed in various locations around Eau Claire where shelters may be established in preparation for drills and potential disasters. It was noted that this was an identified weakness during the response in the floods in Grand Forks, North Dakota last year.

An Air Show is scheduled in Eau Claire on June 13th and the JC's may need

FCC SEQUENTIAL CALLSIGN UPDATE

The following is a list of FCC sequentially assigned call signs issued as of February 2, 1998.

Dist	Group A Extra	Group B Advanced	Group C Tech/Gen	Group D Novice
0	AB0HF	KI0LO	++	KC0CRE
1	AA1TE	KE1JE	++	KB1CIT
2	AB2EX	KG2NO	++	KC2CYG
3	AA3QT	KF3AW	++	KB3CBT
4	AF4HV	KU4OF	++	KF4VRS
5	AC5OX	KM5OU	++	KD5DFM
6	AD6EJ	KQ6UM	++	KF6PIL
7	AB7XF	KK7LT	++	KD7AKT
8	AB8BV	KI8FA	++	KC8JFJ
9	AA9VK	KG9MI	++	KB9SAO
N. Mariana Is	NH0B	AH0AY	KH0GV	WH0ABI
Guam	++	AH2DF	KH2TA	WH2ANV
Hawaii	NH7F	AH6PF	KH7IN	WH6DEN
Am. Samoa	AH8P	AH8AH	KH8DL	WH8ABF
Alaska	AL0H	AL7QY	KL0LN	WL7CUQ
Virgin Islands	++	KP2CM	NP2JX	WP2AIJ
Puerto Rico	NP3S	KP3BE	NP3TS	WP4NNP

++ All call signs in this group have been issued in this district.

Mancorad Radio Club

Mary Langer, KB9GOY,
Secretary

P.O. Box 204 • Manitowoc, WI
54221-0204



2-Meter Repeater: 146.01 Input/146.61 Output

Meeting Minutes February 11, 1998

Roger, W9NPX, brought the February meeting of the ManCoRad Amateur Radio Club to order at 1935 hrs. The meeting was started with introductions all around.

There were no minutes published for January. The January meeting was canceled due to a snow storm. The minutes for the December 1997 meeting, as published in the *Badger State Smoke Signals*, were accepted. The motion was made by Glenn, AA9MT, and seconded by Swanee, N9QFY.

The Treasurer's report as read by Glenn, AA9MT, was approved. Motion made by Swanee, N9QFY, and seconded by John, NZ9Z.

Old Business

Thanks to all members who attended the annual Christmas party. It was a success!

Those Members who have yet to pay their 1998 dues have until April 1st, 1998. Remember folks, your membership dues are due in November. Make Glenn's job easier and pay them on time! You can mail them direct to Glenn or contact him to make other arrangements.

The club's Cushcraft vertical is still broke. Swanee, N9QFY, has ordered a manual for it and he and Fred, W6BSF, are planning on checking it out once the weather gets a little nicer.

The club received a brochure from the Association of Old Josephians (an alumni group) with an update on the Sri Lanka College Club that we donated equipment to. They appreciate our donation very much, and are making good use of the donated equipment.

The club received thank you cards from the families of Lester Pech, WB9-MNQ, and Hubert Willis, W9TQV.

New Business

Welcome to New Member John P.D. Broeders, N8ZGA! Motion to approve membership made by Janice, N9IQZ, and seconded by Bob, KB9INK. Welcome aboard, John!

We have a date for the 1998 Christmas Party. It will be held on December 11th at Cedar Ridge in Maribel. Mark your calendars now!

New ManCoRad Hamfest flyers are available. If you plan on going to a hamfest in the near future, contact Glenn, AA9MT, about picking up a supply of these flyers to take with you!

Speaking of hamfest flyers, our Hamfest is right around the corner. It will be May 9th this year. Your participation is requested to help make this another good fest. Mark your calendars now and contact Glenn, AA9MT, to sign up for one of the positions available!

The Sheboygan Amateur Radio Club is having a Valentines Day get-together on February 21st. ManCoRad members are invited. If you're interested, contact Fred, W6BSF, for more information.

As always, the 2nd Saturday of the month is our breakfast gathering with the Sheboygan Club. We meet at 8:00 a.m. at the Cleveland Family Restaurant in (of all places) Cleveland!

Kuby, N6JSX, presented a letter, and a demonstration of, some ideas he has for club projects. His first idea was for a beacon station, transmitting on 144.290 MHz, for CW practice. Larry, K9LWI, volunteered an old crystal-based transceiver for the project. The club seems generally receptive to the idea, however

the idea has been tabled for future discussion because of the next item Kuby discussed.

Manitowoc City Hall, the location of our Club Shack, is going to be relocating in the near future. It has been made clear to us by City Hall staff that plans for a new City Hall do NOT include ManCoRad. Therefore, we are in the process of finding new accommodations. One location, currently under discussion, is the sextant's house at the edge of Evergreen Cemetery. Another option that will be explored is the Manitowoc chapter of the Red Cross. Your Board Members are assessing the available options, and will present more information as it comes available.

The next item on Kuby's agenda is the local Packet BBS. Red, N9GHE, is planning on moving out of the Manitowoc area in the near future and is looking for a buyer for his Packet equipment. Kuby thinks it would be a good idea for the club to purchase Red's equipment and run the local BBS. Again, the idea seems to be supported by the membership, however we would not be interested in doing this until after we find a new Club Shack location.

Kuby also suggested a club newsletter. This idea was shot down for the same reasons as in the past. This discussion triggered another idea. Ron, WS9X, who was planning on sending out repeater macro lists, will include a calendar of club events in the mailing. This will help remind members of upcoming club functions like; meeting dates/times, hamfest, Field Day and others.

Kuby's last idea was to work with local nursing homes and elderly care facilities in setting up small operating stations for the licensed residents. This is a good idea and the Board will look into it further.

Larry, K9LWI, donated a pile of headphones and splitters for Club CW testing and practice. Thanks Larry! I'm sure we will put it to good use!

Roger, W9NPX, read a letter from the ARRL confirming the club's continuing status as a Special Service Club. You can help us to keep that status as a Special Service Club by donating your time to some of the projects and events that the Club is involved in.

A motion was made by Red, N9GHE, to close the meeting and was seconded by Ron, WS9X. The meeting was adjourned at 2040 hrs.

*Submitted for approval:
David Shemchak, KB9KQA
Acting Secretary*

Meeting Attendance

Glenn	AA9MT
Roger	W9NPX
Fred	W6BSF
Dave	KB9KQA
Don	KB9NTL
John	NZ9Z
Theresa	KB9KXE
Gene	KB9KXF
Red	N9GHE
Larry	K9LWI
Janice	N9IQZ
Ron	WS9X
John	N8ZGA
Bob	KB9INK
Lyle	WB9VTM
Bill	N9XEZ
Erv	W9OMO
Kuby	N6JSX
Bill	K9DUX
Paul	N9QFX
Denise	N4WGG
Dick	N9QFY

Eau Claire Amateur Radio Club

Continued from page 10

help. ECARC members may help in this effort.

Field Day Progress report: Press releases are coming. Confirmation of the site may come next week. The brochure is being worked on. Tentatively, shuttle busses will be working. Hopefully we can get the Red Cross and TV 18 to participate. The shelter will have 110 volts. We will try to get as many bands covered as possible. The meal will be pot luck. We will need people for logging.

Jim, WB9RBP, discussed the Mission Eau Claire and the plans for the summer. All kids who took the written Novice test last Saturday, February 7th, passed. Some Moms and Dads are participating. The code test will come March 7th at the South Middle School in Eau Claire. Anyone is welcome to come in and take any of the tests Saturday morning, March 7th at South Middle School, after 8 a.m.

A number ECARC members successfully took upgrade tests on Saturday,

February 7th. We are watching the Internet for the new call signs through ARRL, or QRZ.com, etc.

Board of Directors Elections: The election of the board of directors took place. The elected directors are:

Rev. Role Nestingen, KG0KM
Carl Searing, W9NW
Rod Steele, AA9UK

46 ballots were counted.

Skywarn training is scheduled for Tuesday April 14, from 7 p.m. to 10 p.m. at the Labor Temple.

A ham equipment auction is scheduled for February the at the American Legion Post 53 on 634 Water Street in Eau Claire. Doors open at 6 p.m. Call-in frequency is 146.01/61 MHz. Bring your gear.

The lunch committee volunteers for the March meeting is: Burch, KB9RBN.

The meeting ended up with members watching an interesting video on antennas: *Everything You Wanted to Know About Antennas, but Were Afraid to Ask.*; ARRL, Frank Rutter, KW. A very interesting and informative video.

Meeting was adjourned.

*Burch Kelly KB9RBN
Secretary*

Taylor County Area Amateur Radio Club

Tom Hrdina, N9GEN, President

2373 Willow Avenue • Medford WI 54451

MEETING ANNOUNCEMENT

The next regular meeting will be held on Thursday, March 5th at 7 p.m. in the Emergency Government meeting room located in the basement of the sheriff's annex to the Taylor County Courthouse, corner of 2nd and Ogden Sts., Medford, WI. Talk-in on the 147.15 Medford repeater (+600 kHz) or 146.52 MHz simplex.

CLARK/TAYLOR COUNTY AMATEUR RADIO EMERGENCY SERVICE (ARES) NEWS

Mike Schoenfuss, N9GHZ
ARES Emergency Coordinator

• Don't forget to try to check into the weekly ARES net held Wednesdays at 8:30 p.m. on the Medford repeater (147.75/147.15). If the repeater is down or not functioning properly, alternate frequencies, in order, are 147.15 MHz simplex and 146.52 MHz simplex. You're also encouraged to volunteer for net control duty for the net.

• The following Amateur Radio operators assisted in providing ham radio communications services for the 6th Annual Perkinstown Tramp Snowshoe Races AND Tours, held on 1/17/98 near Perkinstown, Wis.: N9UBQ (net control station), N9GHZ, N9UWY and N9RRF. Voice communications were used, utilizing the 147.75/15 Medford repeater.

• The following Amateur Radio operators assisted in providing ham radio communications services for a functional disaster exercise held on 1/28/98 at the fire hall in Rib Lake, Wis., and organized by the Taylor County Office of Emergency Management: N9GHZ, N9IFA, N9UBR, WD9ASX, AA9LE and WD9FWP. In addition, KA9UXN loaned the use of his 2-meter hand-held radio. Voice communications were used, utilizing 2 different 2-meter simplex frequencies and hand-held radios. Communications were provided between the dispatch center, the incident controller and the incident control room. In addition, 70cm fast-scan Amateur Radio

television was used to transmit a video image of the "incident players" room to the controllers in another room of the fire hall.

OTHER NEWS

• The next scheduled meetings of the Black River Wireless Assn. (BRWA) are 4/9/98 and 5/14/98, both Thursdays. The meetings start at 7:15 PM, are open to all area Amateur Radio operators, and will be held at the American Legion Hall in Loy-al, Wis.

• An Amateur Radio Volunteer Examiner test session will be held in Medford on April 25th. For more details, see "The Test Point" column of this issue of *Badger State Smoke Signals*.

• Attention all area packet radio users: Al Schnepf, N0GMJ, of Ogema, Wis., reports that he now has a packet node and PBBS on the air on 145.57 MHz. The alias is WITIMM and it's located in the Timm's Hill area near Ogema.

• The Taylor County Area Amateur Radio Club membership wishes to extend a big "Thank You" to Taylor County Emergency Management Director Roland Sacho, N9UBQ, for conducting and instructing the recently completed "Hazardous Materials Citizen's Orientation" course in which several club members were enrolled.

IMPORTANT REMINDER

1998 Taylor Co. Area Amateur Radio Club membership dues and *Badger State Smoke Signals* subscription renewals are now due and payable. They can be paid at an upcoming meeting or can be sent to acting club treasurer Bernie Jari, KA9-WDX, W3159 Hanley Lane, Medford, WI 54451. Dues are \$10.00/year. The club member's share of their club subscription to BSSS is \$7.00/year for 1998. Checks should be made payable to: Taylor Co. Area Amateur Radio Club. NOTE: If your club dues and/or BSSS subscription are not paid for within the next few months, your access to the repeater autopatch will be terminated. So get those dues in today! Don't delay!

What's YOUR Story?

Simple question. Simple answer. Hams all over the state are doing interesting things, many of which are of interest to our readers. Balloon flights carrying ham radio payloads. Simulated shuttle flights. Special event stations. Special presentations at club meetings. Why not share them with the rest of the state's hams? Send your story, with a few good photos if possible, to the editor. His address is on page 2.

We Can Serve Your Club in More Ways Than One!

One of the ways this newspaper serves clubs is by publishing meeting minutes. That saves a club the hassle and expense of printing a newsletter, labeling, and mailing it every month. I get the job instead, along with Ken, K9EN. But, there is more. BSSS, with several special club plans, can arrive in your mailbox monthly at a considerably lower price than the individual subscription rate. And I do mean *CONSIDERABLY*. Interested in what we offer? Write or email Ken Ebner, 822 Wauona Trail, Portage, WI 53901. His InterNet address is kebner@palacenet.net.



SHEBOYGAN County Amateur Radio Club

Mike Musiel, KF9SJ, Secretary
N9001 Dairyland Dr., Cleveland WI 53015

The February meeting of the Sheboygan County Amateur Radio Club will be called to order on Saturday the 21st, and will be too late for the press deadline of *Badger State Smoke Signals*.

The SCARC meets every second Tuesday of the month at the Red Cross building, 2032 Erie Ave. in Sheboygan at 7 p.m. (With the exception of February and June, when the meetings are held at the yearly Banquet, and at Field Day.)

Lyle, WE9R, the recipient of the 1997 Ham Of The Year award (HOTY), will not be able to make the Banquet this year, so the announcement of this year's recipient will be made at the next general meeting of the club, which will be Tuesday, March 10th.

The SCARC now has a PO box. Please make a note of the new address, The Sheboygan County Amateur Radio Club, PO Box 1282, Sheboygan WI, 53082-1282.

The program scheduled for the March meeting will be on the new FCC RF Safety calculations, and how to conform to the new regulations that went into effect on 1 January 1998. There will also be the regular DX update from Art, K9XJ.

Field Day planning is well underway, thanks to Lee, N9YLS, and Josh, KG9BO. If you want to take an active part in this year's FD activities, now is the time to get in touch with them. There is much to do.

Starting with the March meeting, there

will now be a construction segment at the end of the meeting. This will be covering basic constructions techniques, reading of schematics, and the use and construction of components. This was originally done as on a separate night from the regular club meeting. Due to scheduling problems, and time limitations of the persons sponsoring the constructions nights, this has been moved to the regular club meeting.

The club would like to welcome new two new members, Robert, KB9PQI, and Ron, KE9IN.

It is also time to start thinking of nominations for club officers. If you would like to run for a position, please let the board know as soon as possible.

NET SCHEDULES

7 PM Monday Nights, SCARC Fun Net, 147.06 PL 107.2, +.

Traders Net - Following the Monday night net on the first Monday of the month.

6:30 PM Thursday Nights, ARES Net, 147.255 PL 127.3, +, 444.175 PL 107.2, +.

10 net on 28.350 USB. Meets at 7:30pm, following the Monday night 2 meter net.

Respectfully submitted:
Michael J. Musiel, KF9SJ

Quarter Century Wireless Association Southeastern Wisconsin Chapter 162

Larry McCalvy, WA9JMO
5400 Six Mile Road
Radne, WI 53402



A grand time was had by all at our annual Valentine bash. Each lady attending was given a red carnation and enjoyed an afternoon of "catch-up" on the happenings each had been involved with over the past several months.

Our Audit Committee used the gathering as an opportunity to hold its annual audit of our financial books. The committee pronounced the books as "perfect" at the conclusion of the audit. A small glitch cropped up. At least I hope it was only a small glitch! We anticipated receiving individual bills for the meal, but the restaurant said on large groups only one bill was given. Our treasurer had to do a fast collection from the attendees, while his pencil and paper tried to ascertain each

member's cost. The individual desserts ordered didn't make things any easier for Bob. As I left, the treasurer and president were trying to make the cash collected "jell" with the bill presented. We all had a wonderful outing on a beautiful day!

Our March business meeting is scheduled for Monday, March 16th at the Meadows Restaurant in Franksville beginning at 7:30 p.m.

Our Anniversary social event will take place at Marriott Hotel's restaurant in Racine on Sunday, April 19th at 1 p.m. Details will follow in next month's article, and I am sure a card will be sent to our membership.

73, Larry McCalvy, WA9JMO

Red Cedar Repeater Association, Inc.

Steve Hart, KA9OMC, Secretary

E616 810th Avenue

Knapp, WI 54749

2-Meter Repeater: 146.01 Input/146.61 Output

Due to time constraints, Steve was not able to crank out his usual informative column this month. He will be back next, in fine fettle, and with lots of news, including the RCRA auction.

Radio coaches program ready to roll

The ARRL's Radio Coaches program staff reports that the League has received more than 100 requests for application materials for the new youth-oriented club program.

Radio Coaches stems from the kickoff of America's Promise, the Alliance for Youth, a national campaign to improve the lives of the nation's young people and put them on paths to brighter, more productive futures. The ARRL Board of Directors authorized the creation of the Radio Coaches program as Amateur Radio's commitment to youth.

Through Radio Coaches, we want to reinforce the idea that Amateur Radio is a "sport for the brain." Ham radio provides not only a lifetime of enjoyment, but also, potentially, a lifetime career.

Special Radio Coaches binders full of additional program information, advisor sheets and student handouts will go out soon to all those who have requested a program application.

It's not too late to get your club involved! For more information on Radio Coaches or to sign up your club, contact Jennifer Gagne, N1TDY, 860-594-0328; e-mail coaches@arrl.org.

The ARRL Letter, 2/20/98

At University of Wisconsin, Stevens Point

WATTS SNOO



WB9QFW 2-Meter Repeater 146.07-.67 and Club Station

249 Georgia Street North • Stevens Point WI 54481-1040

MEETING MINUTES February 11, 1998

President Mike Pagel K9UW, called the meeting to order at 7:55 p.m.

Prior to the meeting, Mike Pagel K9UW, presented a program which dealt with some Internet applications that relate to Ham Radio, such as QSL information, vendor web pages, contest information, FCC documents and many other items. Mary Eiden, KA9FAS, accessed several sites, explaining how these web pages are developed. Mary showed the club web site that she developed recently, as well as links to other sites. In closing, Mike Pagel, K9UW, stated that the Net is a resource with unlimited capability.

The secretary's and treasurer's reports were approved as recorded.

Mike Pagel, K9UW, reported that the .670 repeater is operating satisfactorily and there have been no complaints. Bob Baird, W9NN, said that the .985 machine, despite the residual noise, is operating to expectations. However, he states that there are several instances of operating abuses, and suggests that we all try to use proper operating techniques and courtesy to preserve the integrity of the repeater.

A great banquet and a record turnout prompted members to unanimously nominate Al Mallek, K9WVM, and Wayne Johnson, K9MIF, to co-chair next year's banquet. They truly deserve our plaudits for a job well done.

Scott Jasper, NE9U, reported on the progress of the swapfest raffle. He stated that some prizes that we had in the past are difficult to obtain, if not impossible, and asked for suggestions. A motion by Al Mallek, K9WVM, and amended by John Feltz, W9JN, was seconded by Mary Eiden, KA9FAS, to allow Scott to spend an amount suggested at a previous discussion, using his discretion. Motion carried.

Opening time of the club station on the last Saturday of the month will be changed effective Saturday, February 28. It is

suggested that we meet for breakfast at 9:30 a.m. at the Olympic Restaurant, and afterwards those wishing can gather at the club station.

Joe Larson, N9JW, is on track to teach a General License class which will begin April 1, 1998. The class will run ten weeks, including CW and theory, with the examination being given at the club's annual swapfest June 7, 1998.

John Feltz, W9JN, reports that all plans for the upcoming swapfest are being finalized and should be in place by the end of the month. With cooperation from all club members, this will be a bigger and better swapfest.

Wayne Johnson, K9MIF, displayed a device made of PCV pipe that permits the installation of coax or ladder line through your radio shack wall to your antenna. It can be fabricated by most anyone for minimal cost and makes your installation safe and waterproof.

Motion to adjourn by Mary Eiden, KA9FAS, was seconded by John Feltz W9JN, carried. Meeting adjourned 8:55 p.m.

Respectfully submitted,
Al Mallek, N9WBS, Club Secretary

Meeting Attendance

Scott Jasper	NE9U
Joe Larson	N9JW
Bob Baird	W9NN
Roger Kanieski	N9RK
Wayne Johnson	K9MIF
John Feltz	W9JN
Jan Rydberg	KB9ROJ
Al Mallek	K9WVM
Mike Eiden	WD9JID
David Tamres	KB9IIF
Mike Peters	W9CO
Jerry Fadness	W9GF
Mike Pagel	K9UW
Mary Eiden	KA9FAS
Al Mallek	N9WBS

Wisconsin Nets Association Ltd.

Art Evans, KA9KLZ, Secretary
213 N. Jefferson • Cuba City WI 53807-1558

WISCONSIN NETS

Net	WNA	Freq.	UTC	CST	Manager
BWN	Yes	3985	1200	0600	W9RCW
BEN	Yes	3985	1800	1200	KE9VU
WSBN	Yes	3985	2330	1730	K9UTQ
WNN	Yes	3723	0000	1800	N9MXW
WSSN	Yes	3645	0030	1830	N9BDL
WIN/E	Yes	3662	0100	1900	WB9ICH
WIN/L	Yes	3662	0400	2200	W9UW
RCRA	No	01/61 (Mondays CST)	0030 (Menomonie Area)	1830	KA9OMC
Gr. Bay	No	72/12 (Green Bay Area)	0245	2045	WB9NRK
ARES	No	4.65/5.25 (South East/South Central Wisconsin)	0200	2000	
RACES	No	3993.5 (LSB Sunday)	1400	0800	WA9OAY

WISCONSIN NTS REPORT January, 1998

With all seven of the active nets reporting for January, check-ins and traffic were down, and net time is up. In January, 3389 stations passed 1932 messages in 5904 minutes. BWN/1610, BEN/94, WSBN/88, WNN/9, WSSN/20, WIN-E/79, WIN-L/32.

Eight stations had traffic counts in excess of 100, four of whom made Brass Pounders League. The stations are: W9-IHW/752 (BPL), K9JPS/744 (BPL), WB9-JSW/710 (BPL), W9RCW/688 (BPL), WB9YPY/348, K9FHI/257, W9CBE/177, and N9KHD/158. Twenty seven stations submitted Station Activity Reports and

twelve stations submitted Public Service Honor Roll Reports.

I mail my reports to League Headquarters on the 7th of the month. That makes the deadline for reports the 6th. I can accept reports until I start printing them up for mailing. If you can catch me on the BWN on the morning of the 7th all would be well.

Hale Blakely, W9CBE, Asst. STM will also accept reports and forward them to me. Hale covers most of the CW and SSB nets so there is someone on almost every net to take reports.

Reports can also be sent VIA packet or e-mail.

Continued on page 13

Wisconsin Nets Association

Continued from page 12

My packet address is:
KA9KLZ @ KC9KQ.WI.USA.NOAM

My e-mail address is:
aevans@mhtc.net
Thanks to all stations who participate in the Wisconsin nets. You are the nets and Wisconsin nets are the best. 73.

Arthur A. Evans, KA9KLZ
Wisconsin Section
Traffic Manager



Washington County Amateur Radio Club

Tom Waldschmidt, N9LZW,
Secretary
465 Elder Lane
Allenton, WI 53002-9799



Club Repeater: 146.73 MHz

<http://www.nconnect.net/~WCARC>

MEETING MINUTES February 12, 1998

The February 12, 1998 meeting of the Washington County ARC was called to order at 7:32 p.m. by President Paul (Rip) Riddle, W9SIZ. There were 14 members attending this meeting. They were: Tom, N9LZW; Rip, W9SIZ; Bill, N9IBU; Tom, WD9GGA; Bob, AA9EF; Larry, WB9BVB; Sherm, W9NGT; Walt, N9LLS; Paul, N9KIK; Gary W9XT; Ed, KG9MF; Don, K9GR; and David, KA9RNU.

The minutes of the December and January meetings were read by Secretary Tom, N9LZW. There was a motion by Bill, N9IBU, seconded by Gary, W9XT, to approve the minutes. Motion carried.

The Financial Report was read by acting Treasurer David, KA9RNU. David also passed out a detailed annual report. Sherm, W9NGT, complimented David on his excellent annual report. David also said that he has received new check blanks, correcting the ones which had the club's name printed incorrectly. There was a motion by Don, K9GR, seconded by Sherm, W9NGT, to accept the Treasurer's Report. Motion carried.

Rip, W9SIZ, said that we still didn't have enough members present to act on the amendments to the constitution.

There was some discussion about the inclusion of *Badger State Smoke Signals* subscription with our membership dues. Apparently there had been some grumbling recently.

REPEATER COMMITTEE REPORT

Repeater Committee Chairman Don, K9GR, gave a report on the repeater. Don said that he had acquired a PL module for the input of the repeater but he didn't know if it was functional yet. Don suggested that given the amount of interference we have been experiencing on the repeater that we should consider implementing PL for access to the repeater. Don asked for some discussion on this.

Tom, N9LZW, explained that he was planning to make a motion that the club take immediate measures to install PL on the repeater input under new business. Tom said that he would make that motion at this time. The motion was seconded by Larry, WB9BVB. Don asked if there was any further discussion. Gary, W9XT, recommended that notice of PL requirement be published in the *Badger State Smoke Signals* and that it be implemented between the middle and end of March. Don agreed that a time should be announced. Sherm, W9NGT, suggested implementation be delayed for one month because not everyone has PL capability. It was mentioned that PL boards can be obtained for between approximately \$10.00 and \$25.00. Sherm said he has 2 boards that he would make available to anyone who needs them. Don said that kits are available at swapfests.

After additional discussion, Tom, N9LZW, amended his motion to read that the Washington County ARC shall install PL on the receive side of the repeater following publication in the *Badger State Smoke Signals* and by the end of March. The amended motion was put to a vote. Motion carried unanimously.

Don also suggested getting members of a fox hunt club to assist us in tracking down the source of the repeater's interference.

FOOD CHAIRMAN

Rip, W9SIZ, recommended that the breakfast schedule be extended for a month and 1/2 so that everyone would know where the breakfasts would be held. After some discussion it was decided that only two restaurants would be used for the Saturday morning breakfasts. The location would alternate between Jimmy's in Jackson and the Mineshaft in Hartford beginning with the March schedule.

OLD BUSINESS

Rip mentioned that we are still in need of a club treasurer. Paul, N9KIK, is presently pondering the possibility of taking on the responsibilities of club treasurer. There was some discussion of the treasurer's responsibilities, and David explained some of his techniques. Tom, N9LZW, explained that David had been maintaining the roster from his database, but, that it is actually the secretary's responsibility and that he intended to resume handling it.

PROGRAM CHAIRMAN

Rip also mentioned that we are needing someone for a program chairman. Tom noted that we recently had a program committee appointed. It was noted that club appointments expire at the end of the appointing President's term. Gary, W9XT, explained that in other clubs the programs are the responsibility of the Vice-President. Don said that the duties of the vice president are spelled out in the constitution.

Rip also questioned the members as to how we could increase member participation. Gary said that a program and meeting announcement were important. Ed agreed with that, saying that every member should be scheduled for 5 minutes to say something instructional or informative to keep us in a learning mode. He suggested that this be in addition to the programs. Rip said that everyone has a story to tell. He questioned, "How did you get into this hobby? What is your story?" Larry, said that he thought we should have a club swapfest again. Don said that the only problem with that is that we were just moving the boat anchors from one place to another. Larry mentioned the Markesan club as an example. They have an auction in conjunction with their club picnic.

CLUB BANNER

Rip asked if we were ready to purchase a banner at this time. Walt said that the design was ready. Don said that we didn't have enough members present at the last meeting to authorize the expenditure. Gary, W9XT, moved to have Walt purchase the banner. Larry, WB9BVB, seconded the motion. Motion carried. The cost of the banner is estimated to be around \$75 to \$80. Walt said he has been in contact with the vendor. The banner will have a blue background and will appear similar to the club jackets. Motion carried unanimously.

Tom, N9LZW, announced that the Emergency Government Director, James Pamperin, has donated a used scanner to the club to be used as desired. The scanner's display is inoperative and it was going to be scrapped by the county. Director Pampering thought that one of the club members may be interested in repairing it or using parts from it. It seemed appropriate when Emergency Coordinator Walt,

VOYAGER AND PIONEER: THE ENERGIZER BUNNIES OF SPACE

PASADENA, Calif. (Feb. 17) - More than 6.5 billion miles from home, a U.S. spacecraft carrying the sounds of a human kiss and the best wishes from a former president has become the most distant man-made object in the universe.

Voyager 1 - so far away after more than 20 years hurtling through space that its signals take more than 9 1/2 hours to reach Earth - surpassed the distance of the older Pioneer 10 spacecraft by midday Tuesday.

"Now the baton is being passed," Edward Stone, director of NASA's Jet Propulsion Laboratory and Voyager project director, said in a statement.

Voyager 1 and the elderly Pioneer 10 are headed away from the sun in nearly opposite directions. Both are powered by nuclear batteries that keep them functioning in the freezing blackness of space.

On the edge of the solar system, Voyager 1 still returns data, although the power of the signal reaching NASA antennas is 20 billion times weaker than the power of a digital watch battery.

Voyager 1 was launched from Cape Canaveral, Fla., on Sept. 5, 1977, carrying scientific instruments for planetary exploration and a message to the universe.

The latter is a 12-inch gold-plated

phonograph record containing a variety of sounds, 115 analog images, spoken greetings in 55 languages, printed messages from former President Jimmy Carter and then-U.N. Secretary General Kurt Waldheim and a selection of music.

The sounds include wind, rain, surf, a chimpanzee, a Saturn 5 rocket, footsteps, a heartbeat, laughter, a mother's kiss and a blacksmith, among others.

The images range from the structure of DNA to a diagram of continental drift and a violin with sheet music.

The record was assembled by a committee that was headed by the late astronomer Carl Sagan.

Voyager 1 passed by Jupiter on March 5, 1979 and Saturn on Nov. 12, 1980. Saturn's big moon, Titan, bent the trajectory northward out of the plane of the ecliptic, the plane in which all the planets except Pluto orbit the sun.

Pioneer 10 was launched on March 2, 1972. Its mission officially ended on March 31, 1997, but science data is occasionally sent to Earth in a training program for flight controllers.

Barring breakdowns, Voyager 1 is expected to have enough electricity and propellant to operate until about 2020. By then, the spacecraft will be almost 14 billion miles from Earth.

FCC Amateur Radio computer system down

The FCC says it hopes to have its Amateur Radio licensing computer system, down since February 10, back on line by February 21. No paper or electronic applications have been processed since the computer system stopped functioning.

FCC sources attribute the situation to a combination of problems and say three people are working on it. Late word from Gettysburg was that personnel will try to process data submitted on February 11 and 12 by VECs. If all goes well, the FCC will have an updated file available for Internet call sign servers on February 21. The FCC's computer system has failed before, but never for this long.

Again pending successful testing, on February 23 the FCC plans to ask VECs to send on the applications they've been holding back at the FCC's request.

The situation has frustrated those who have been hoping to learn their new call signs or to check on updated licensing status. Call sign servers on the Internet also have been affected.

Earlier this week (February 16), the FCC apologized to VECs and asked them to not file any Amateur Radio applications. "We are sorry for the inconvenience," the FCC said.

The ARRL Letter, 2/20/98

N9LLS, said he would be interested in taking it.

There was a motion by Sherm, W9NGT, seconded by Bill, N9IBU, to adjourn the meeting. Motion carried. Meeting adjourned at 8:30 p.m.

Respectfully submitted,
Tom Waldschmidt, N9LZW, Secretary

PROGRAM

Following the club meeting, Sherman Carr, W9NGT, gave a presentation on direction-finding antenna construction. He described two types of antennas, a quarter wave and a half wave.

CALENDAR OF EVENTS

3/05/98, 7:30 P.M., Net, 146.730

03/07/98, 9:00 A.M., Breakfast, Jimmy's in Jackson

03/08/98, SEWFARS Swapfest, Waukesha Expo Center

03/12/98, 7:30 P.M., Club meeting, Washington County Courthouse

03/14/98, 9:00 A.M., Breakfast, Mineshaft in Hartford

03/14/98, MSOE ARC Swapfest, 1025 N. Broadway, Milwaukee

03/15/98, Tri County ARC Swapfest, Jefferson, WI

03/19/98, 7:30 P.M., Net, 146.730

03/21/98, 9:00 A.M., Breakfast, Jimmy's in Jackson

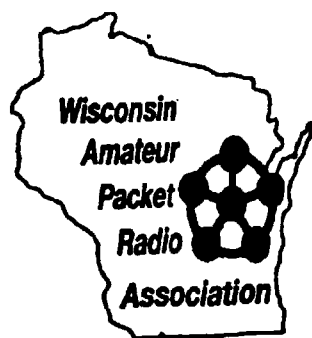
03/26/98, 7:30 P.M., Net, 146.730

03/28/98, 9:00 A.M., Breakfast, Mineshaft in Hartford

03/31/98 PL tone required on repeater.

SPECIAL NOTICE ON REPEATER

Please take notice that commencing on or about March 31, 1998, a PL tone of 127.3 will be required for access to the Washington County ARC repeater operating on the frequency of 146.730 MHz. Input frequency of this repeater is 146.130 MHz. The repeater also transmits PL on its output frequency for those who want to take advantage of this feature. Add-on PL boards can be purchased or built for older rigs not equipped for it.



THE WISCONSIN PACKETEER

Wisconsin Amateur Packet Radio Association

Bob Gedemer, KA9JAC

609 Wilson Street • Neenah, WI 54956

Andy Nemec, KB9ALN, Editor • 720 N. Broadway (Upper West) • Green Bay, WI 54303

Minutes of WAPR meeting of January 31, 1998

The meeting was held in Eau Claire, attended by N9BQM, AA9AW, N9UXC, N0GMJ, WD9HFT, and W9NNS, and was called to order at 1:16 PM. AA9AW was appointed to take the minutes of the meeting in the absence of the secretary. N9BQM is to transcribe the minutes and publish them.

N0GMJ presented the group with the bill for tower rent for the Timm's Hill site with indications that he has paid the 1998 site rent per previous agreements.

N9CFN has assumed the duties of the TCP/IP coordinator replacing N9UDL. Those with a need for an IP number can contact Ron Nelson N9CFN at: n9cfn@kb9byq.ampr.org. Please give your name, call sign, the call of the station for which a number is being requested and it's alias and location together with your phone number, e-mail address if possible and address.

KE9LZ Steve McDonough has requested that a replacement be found for him as packet frequency coordinator. WB9TYT has been contacted regarding how he would like this done and a reply is awaited. Anyone wishing to serve in this capacity is asked to contact either WB9TYT or N9BQM.

The current frequency list as found at TAPR was circulated for corrections.

There was a discussion of TNC parameters that can be tried to attempt to improve throughput of existing links.

A discussion followed regarding paths to Eau Claire and the Twin Cities from the remainder of the WAPR node system.

A motion was made by W9NNS and seconded by N0GMJ to place 2 6 meter nodes at Chippewa Falls (WD9HFT site) and Nielsville (KF9XX site) linked to the existing 145.69 node at WD9HFT and the proposed 440 node at the KF9XX site. N0GMJ is to furnish an antenna for KF9XX site and N9UXC is to furnish a 9k6 TNC. N9BQM and KF9XX are to furnish the remaining items for the site. W9NNS is to furnish antennas for the WD9HFT site and a new one at W9NNS-6 Meteor Hills plus radios for both WD9HFT and KF9XX sites. Motion passed unanimously.

Meeting adjourned at approximately 3:30 P.M.

Notes by AA9AW at meeting. Transcribed by N9BQM Feb. 2, 1998 and published by e-mail and rtwv method on that date. Published in the Badger State Smoke Signals on March 1, 1998.

Using the Wisconsin Network - Part 37

by Andy Nemec, KB9ALN

In our last discussion concerning Internet Gateways, we started a discussion of mail service. This time out, we will continue our discussion as there is a lot more to internet E-Mail than there is to most packet mail. In our examples, we have been using a typical gateway setup, KB9BYQ's TNOS gateway in Appleton. He has a special arrangement with N9RJZ in Appleton. John provides the Internet service that Al's Gateway uses.

Internet E-Mail, as most often seen, is "plain text". That is, a letter typewritten and easily readable as ASCII text. Of course, as soon as people found out how wonderful electronic mail was, they wondered if it was possible to mail programs, pictures, and other binary format files. Of course it is, through the use of encoding and the E-Mail attachment.

You can send someone almost any kind of file in this manner, a binary executable program, a JPG picture, and even video and "movies". You can also send word processor and other files ("rich text") that are stored in a binary format. These are exactly the same as any other binary file, therefore, they must be specially encoded to be sent in a "plain text" mode.

If you operate a TCP/IP station, you probably already know that the mailer you use will take care of any special file types (at least most often). The information provided below is not so much for you, but for users who connect via AX.25 text mode to collect their mail from the gateway. Most TCP/IP users will have their mail automatically collected by your TCP/IP program. However, you may find the following information helpful, especially the information concerning file sizes.

There are various methods used to encode programs so that they can be mailed, among them UU, Base 64 and Bin2Hex. While this is no problem for the internet, where data rates reach astronomical speeds, they can represent a considerable challenge when collected by packet radio. There are a few things to consider if you decide to mail or receive a program encoded in this manner.

The first thing to consider is the size of the file. It would be a lifelong endeavor to collect a 1-megabyte file at 1200 bps! You best recommend to anyone mailing you at a gateway to limit file sizes. Even a 10K file can try your patience at a typical LAN speed.

Also remember that sometimes an encoding program will double the size of the file! Before you send anything this way, encode the file and look at the file size. Anything that "bloats" a file is to be avoided (unless the file is a small one).

In order for a lot of word-processor documents to be successfully transferred, you may need to convert these as well. Most of these kinds of files are a combination of plain text as well as odd control characters. In order for them to be safely transferred, they should be encoded prior to being sent.

HTML documents, on the other hand, do well via standard packet mail. HTML is a text-based programming language that is used extensively on the World-Wide Web. Of course any such document must be viewed with a Web Browser, but they can be transferred via packet mail, with no encoding necessary.

How to tell if you need to encode a file? That's pretty easy. If it has a file extension of .TXT, then it is usually safe to send without encoding. Don't be fooled by a .DOC extension - most of these are plain text, but some are word processor documents containing formatting and control characters. When in doubt, look at it with the DOS "TYPE" command (or a program like LIST.COM) and look for odd characters on the screen, or beeps coming from your PC's speaker. If you see or hear anything unusual, then it should be encoded. Any document created with a word processor and not saved as "ASCII plain text" will need to be encoded.

That being said, here's a special warning to users of Windows "Write!". Even if you tell this program to save the file in "plain ASCII text", it will add extraneous control characters to the file. Take note of this and either use a plain text editor, or use a different word processor that you are certain saves files as plain text.

Now that we have a pretty good idea of what might need to be encoded, we should explore what kinds of encoding and decoding program can be used. One of the

more popular ones used by Internet mailing programs is base 64. The procedure in a case like this is to capture the file as you would any other text file you are saving. Then copy the file to the directory that your internet mailer uses, and tell it to decode it. Then you look at it with the mailer, or save the executable file you have been sent.

Another method of file transfer via mailing is to use the UU encode and decode programs. These are stand-alone DOS programs that will encode or decode a binary-format file into a format that looks like plain text to the mail programs. When receiving a file like this, simply tell the UUDECODE program to decode it. You can then use the executable, or view a "rich text" format message or word processor document.

Either of these file conversion methods are likely to be decodeable by mailers, or at least easily decodeable with a stand-alone program. When in doubt about any such file exchange, think about the following:

Will your correspondent be able to decode the message?

Will you be able to decode the message?

How big is the file? Common sense says to keep any file under about 10K.

What is the content of the file? Remember, a picture file of inappropriate subject matter is just as illegal as any - illegal wording.

And one more thing to discuss. Many of you have seen me use words like "Encode" and "Decode". Many astute observers will wonder if encoding a message sent via packet is legal. The phrase "Codes and Ciphers" in part 97 rings a bell with most people, but they often forget the "rest of the story". The full text of the rule in question should help to reassure you on this matter.

This rule points to intent of the encoding more than anything else. Remember, it is illegal to code a message to hide it's meaning. It is OK to compress or encode a message if the intent of the encoding is to facilitate message exchange. In other words, if you are using encoding to make a message transfer more efficient or even just plain possible, you are following the law. If you are using encoding simply to make it harder for someone to see your message, then you are outside of the law.

That's all for this time. In the next part of our series, we will continue to discover more of the features of the gateway. Until then, 73 from Andy.

WISCONSIN AMATEUR PACKET RADIO MEMBERSHIP APPLICATION

PLEASE PRINT

NAME: _____ CALL: _____ HOME PHONE: (____) _____

ADDRESS: _____ CITY: _____ STATE: _____ ZIP: _____

HOME BBS: _____ FREQ: _____ (Listing your home BBS is important)

Your HOME BBS should be a full service BBS, not your TNC's mailbox.

MY PACKET STATION OPERATES: _____ DAY _____ NIGHT _____ 24HRS

I OPERATE A: _____ DIGIPEATER WITH ALIAS OF: _____

_____ FULL SERVICE BBS

PRIMARY PACKET INTEREST/EXPERTISE IS: _____

_____ YES I want to receive Badger State Smoke Signals and I understand that part of my dues goes to pay this subscription. cost \$20.00

_____ NO I do not wish to receive Badger State Smoke Signals as a part of my WAPR membership. Cost \$15.00

COMPLETE and return this form with your check or money order - \$15.00 membership only or \$20.00 membership and Badger State Smoke Signals, made payable to W.A.P.R. (NOT payable to Bob Gedemer) to:

Bob Gedemer KA9JAC/WAPR
609 Wilson St.
Neenah, WI. 54956-3129

THE TEST POINT

(continued from page 3)

exemption is required, contact me beforehand to obtain one. No appointments are necessary to take exams. For further questions, please leave a message on the mailbox or phone me at (608) 832-6631.

Mark Jenks, N29B

RACINE, WISCONSIN - ARRL/VEC

Monthly first Saturday, except January, July, and August. Monthly exams are given 9:00 to 11:00 a.m. at the Red Cross Building, 4521 Taylor Avenue, Racine. Walk-ins are permitted.

Talk in on 147.87/27. Inquiries and registrations should be directed to Robert N. Jensen, W0WLN, 5616 Cambridge Lane #6, Racine, WI. Telephone (414) 886-8551.

TOMAHAWK, WI

Last Saturday of every month, Jan. thru Oct.

Tomahawk Volunteer Examiners (ARRL/VEC). Tomahawk, WI. No preregistration required, but appointment would be appreciated. Registration at 8:30 a.m. and testing starts at 9:00 a.m. For location or other information, inquire on 145.43 MHz, repeater or contact: Terry Collins, KB9AUP, W6564 Highway 8, Tomahawk, WI 54487. Telephone (715) 453-4633.

APPLETON, WI - ARRL/VEC

MANITOWOC, WI (HAMFEST)

KAUKAUNA, WI (HAMFEST)

Conducted by the Fox Cities ARC VE team. All test sessions in Appleton are held at James Madison Jr. High, 2020 S. Carpenter Street. Testing starting at 8 a.m. For Appleton information, contact George R. Croy, W9MDP, 2113 Twin Willows Drive, Appleton, WI 54914. (920) 730-0967. For Manitowoc or Kaukauna information, contact Larry Siebers, KD9IA (920) 759-1167.

STEVENS POINT, WI (ARRL/VE)

Held in room 107, of the UWSP Science Building, on the corner of Fourth and Reserve Streets in Stevens Point. Contact Joe Larson, N9JW evenings at (715) 344-1182.

PEWAUKEE, WI

Kettle Moraine Exam Team. Held at the Pewaukee WCTC Campus Science Building, Room S101, 9:00 a.m. to Noon. Contact Al Johnson, AA7CS, (414) 568-0836. 103357.3222@COMPUSERV.COM

OSHKOSH (OMRO)

The Oshkosh VE Team will administer Amateur Radio exams monthly on the first Saturday. Registration begins at 8:30 a.m. and exams will be given from 9 a.m. until noon at the Omro Community Center, 130 W. Larrabee, Omro, WI. Walk-ins welcomed. Bring a good quality photocopy of your original license and any other necessary documents such as a CSCE, etc. The first session will be through W5YI/VEC, and then sessions will alternate between ARRL/VEC and W5YI/VEC. The exam fee is \$6.35. For more information, please call Dick Lemme, K9FA, at (920) 235-0987, e-mail lemme@vbe.com, or write Dick at 826 Jefferson Street, Oshkosh, WI 54901.

EAUCLAIRE

The Eau Claire ARC will hold exam sessions on the second Saturday in the months of January, April, and October, as well as on the date of their annual hamfest during the summer. For further information contact: Carl F. Searing, W9NW, 1129 Mc Kinley Road, Eau Claire, WI 54703-2219 (715) 834-1303.

REDGRANITE, WI (W5YI VEC)

The Radio Amateurs of Wisconsin (RAW) will be holding test sessions at the Civic Center in Redgranite, 202 Pine River Road, one block from Highway 21. Turn north by Mosier's Sporting Goods store. Registration at 9:00 a.m. Bring two forms of identification, \$6.35 per test, two copies of all original documents, CSCE's, licenses, etc. along with original documents. For further information, contact: Mark Miller, N9WT, (920) 231-1662 or Mike O'Connor, K9II (920) 231-7093.

MENOMONIE, WI

The Menomonie, WI VE team will conduct its 1998 exams on Saturday, March 28, 1998 and Saturday November 7, 1998. At UW-Stout Communication Center, 820 South Broadway, Menomonie, WI. Walk-ins only, 9:00 a.m. to 11:00 a.m. Contact: Jim Ley, NX9F, (715) 232-1397 (W) or (715) 235-3998 (H).

WISCONSIN DELLS, WI

Wisconsin Dells City Hall, City Council Chambers, 10:00 a.m. to 2:00 p.m. Contact: K9WD, (608) 254-2895.

HUDSON, WI

Testing is held at the St. Croix County emergency government Center on Carmichael road in Hudson, WI. Registration begins at 8:00 a.m. and testing begins promptly at 9:00 a.m. Contact: Greg Miller, KB9JHL, 503 4th St., Hudson, WI 54016. (715) 386-9857.

MARSHFIELD, WI (ARRL/VEC)

Sponsored by the Marshfield Area ARS. Held at St. Joseph Hospital, 611 St. Joseph Ave., in the 1 West classroom located adjacent to the Westwood Cafeteria on the main floor of the hospital. Use the main entrance or any other entrance and follow the signs to the cafeteria. Registration starts at 8:30 a.m. with testing starting at 9:00 a.m. Talk in on the 147.18 Marshfield repeater. Walk-ins welcome. Contact: Walter Friant, WB0KIN, 2310 Wallonie Drive, Marshfield, WI 54449 (715) 387-3870.

SHEBOYGAN, WI

Wednesday dates: Registration 1830 hrs, testing 1900 hrs. Saturday dates: Registration 0830 hrs, testing 0900 hrs. Testing site is: Red Cross/Boy Scout Office Building (lower level), 2032 Erie Ave., Sheboygan, WI. Test site has limited handicap accessibility. Walk-ins are OK but preregistration would be appreciated. Test fee is \$6.35. Make



WB9FDZ (Original Club Call)
K9ODK (Robert L. Prine Memorial Call)

Raymond J. Matlosz, N9MLZ, Secretary
450 West 2nd Street • Reedsburg, WI 53959



The February 17th meeting of the Yellow Thunder Amateur Radio Club, Inc. was called to order at 7:40 p.m. by the club president, Steve Schulze, N9UD0.

The minutes of the January meeting as published in the BSS were accepted as printed. The secretary mentioned that although it was not noted in the members present, the secretary was, in fact, present.

Bill Klinkner, N9KXX gave the treasurer's report. The club has money, and some bills outstanding. There are 26 paid members. The letter he sent out last month prompted a few people to renew their membership.

OLD BUSINESS: None NEW BUSINESS: Jim Paul, N9LKY received a letter regarding Youth Opportunity Days (YODA) to be held March 21 with set-up on the 20th. Members discussed what the club could do to that would attract the attention of the kids attending. Jim announced the spring meeting of BATS will be held March 7 at the Roxbury Tavern. Bill suggested that the club donate \$100 to BATS. Discussion followed. Len Wagner, N9XJG made a motion to donate \$100, seconded by David Spearing, KB9CSW. Club members began

checks payable to SCARC VE Testing. All class tests administered. Contact: Art Pahr, K9XJ, (920) 876-2370. e-mail <k9xj@excel.net>

ONALASKA, WI (ARRL/VEC)

The Riverland Amateur Radio Club will hold test sessions at the Onalaska Public Library, 741 Oak Avenue South, registration begins at 9:00 a.m. with testing at 9:15 a.m. Please bring two forms of identification and two copies of all original documents, CSCEs, license, etc. For more information contact: Roger Reader, KA9BKK, 526 13th Ave. N., Onalaska, WI 54650. (608) 783-0732.

MEDFORD, WI (ARRL/VEC)

Taylor County Area AREC. Registration starts 8:30 a.m., testing starts 9:00 a.m. Location: The conference room in the lower level of the Sheriff's annex to the Taylor County Courthouse, corner of 2nd and Ogden Sts., Medford, WI. Take Ogden St. west off of Hwy. 13 to the courthouse. Park in the lots on the east or south sides of the courthouse or on the street. PLEASE use the entrance on the south side of the courthouse and watch of the signs. Walk-ins welcome. Contact: Tom Hrdina, N9GEN, 2373 Willow Ave., Medford, WI 54451. (715) 748-4054

ARLINGTON HEIGHTS, IL (ARRL/VEC)

Contact: Frank Stanekiewicz, (847) 437-1464

CEDARBURG, WI - ORCHAMFEST

EAUCLAIRE, WI - ECARCHAMFEST

GREEN BAY, WI - ARESHAMFEST

HAYWARD, WI - HAYWARD HAMFEST

KAUKAUNA, WI - SWAFFEST

MANITOWOC, WI - LAKESHORE HAMFEST

MARSHFIELD, WI - HAMFEST

OAK CREEK, WI - SMARCHAMFEST

RACINE, WI - RACINE HAMFEST

RHINELANDER, WI - NWARC SWAFFEST

ROCKFORD, IL - RARCHAMFEST

ROTHSCHILD, WI - WVRA HAMFEST

SOUTH MILWAUKEE, WI - SMARCHAMFEST

STEVENS POINT, WI - CWRA SWAFFEST

WAUKESHA, WI - KMRA SWAFFEST

WAUKESHA, WI - MIDWINTER SWAFFEST

DUBUQUE, IA - HAMFEST

See the Swapfest column for additional information and contact persons.

DUBUQUE, IA - ARRL/VEC

Dubuque Hamfest. Contact: Carl Clark, N0KAX, 2145 Delicia Drive, Dubuque, IA 52001. (319) 557-9149.

LOVE SPARK, IL

Third Saturday of every month. Northern Illinois Volunteer Examiners (W5YI VEC). Held at North Suburban District Library, 6340 North Second St (Hwy 251), Loves Park, IL. Contact: Dennis G. Eksten, W9SS, (815) 877-6768.

MINNESOTA TEST INFORMATION

From "The Ground Wave", Saint Paul Radio Club.

Saint Paul Radio Club (SPRC)

Contact: Ed VanCleave, W0VC, (612) 636-0108

Test Site: St. Paul Technical College

235 Marshall Ave.

St Paul, MN

TESTING: First Saturday of the month, 8:30 a.m.

Anoka Amateur Radio Club (AARC)

Contact: Joe Wivoda, N0AU, (612) 753-6481

Test Site: Blaine City Hall

9150 Central Ave NE

Blaine, MN

TESTING: Second Saturday of the month, 9:00 a.m.

Bloomington Office of Emergency Management

(Bloomington Amateur Radio Club (BARC))

Contact: Dan Royer, KE0OR (612) 888-9756

Test Site: Creekside Community Center

98th & Penn Avenue S

Bloomington, MN

TESTING: Fourth Saturday of the month, 9:00 a.m.

planning for the second annual Swapfest.

Buck night winner was David Estes, who was not present, hence he didn't really win.

Meeting adjourned at 8:42 p.m.

NEXT MEETING: Tuesday March 17, 1998 at 7:30 p.m. in room 14 in the Baraboo Civic Center.

The following members were present:

Raymond Matlosz	N9MLZ	Reedsburg
Bill Klinkner	N9KXX	Sauk City
Jack Kirner	N9LKY	Prairie du Sac
David Spearing	KB9CSW	Portage
Thomas Harrison	N9PQJ	Reedsburg
Jim Paul	N9LKY	Baraboo
Ken Johnson	K9DZG	Mazomanie
Art Kleefisch	W9WSS	Baraboo
Steven Schulze	N9UD0	Baraboo

Valley Amateur Radio Club (VARC)

Contact: Bill Martin, A10D (612) 432-0438

Test Site: Hayes Community Center

14601 Hayes Road

Apple Valley, MN

TESTING: Second Thursday of the month 7:00 p.m.

W5YI Group

Contact: Dave Ranney, N0AXL (612) 542-2553 Test Site:

Eden Prairie Library

479 Eden Prairie Drive

Eden Prairie, MN

TESTING: Third Tuesday of the month 6:30 p.m.

SE Metro Area Radio Club (SEMARC)

Contact: Dave Harrell, N0IPN (612) 459-8678

Test Site: Cottage Grove fire Station

8641 80th ST. S

Cottage Grove, MN

TESTING: Third Saturday of the month, 9:00 a.m.

The times and places listed above are the usual time and place for each VE team. Occasionally, sessions are canceled or changed. It is a good idea to call ahead to confirm the test time and place.

This section of *Badger State Smoke Signals* is available to publicize your Volunteer Examiner Amateur Radio license examination schedules. Please send us your schedules of dates, times, and locations that you will be conducting examinations and we will include the information here. Be sure to include contact address and any other necessary requirements. Information should be sent to K9EN at the address shown on page 2.

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WANTED: Icom HT W21AT dual band or similar model that will interchange battery packs and accessories. My radio has big problems and a similar replacement would be ideal for the station that I have. Mark, KB9OFK (608) 783-2824 or e-mail drmarkdc@aol.com

FOR SALE: Colorful United States Stamps, 100 all different. \$1.00 postpaid. Richard Regent, K9GDF, 5003 South 26th St., Milwaukee, WI 53221.

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SHOPPER'S GUIDE

SWAPFESTS



26th ANNUAL MIDWINTER SWAPFEST

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SUNDAY

JANUARY 11, 1998

1997 WINNERS
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Wisconsin Rapids, WI

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HAM IT UP EVERY SPRING! MADISON SWAPFEST SUNDAY, APRIL 5, 1998

John Q. Hammons Trade Center
1313 John Q. Hammons Drive

Just west of intersection of Beltline and Greenway Blvd.
Sponsored by MARA/W9HSY

P. O. Box 8890 Madison, WI 53708-8890
Swapfest Information Line: (608) 245-8890

SOUTH MILWAUKEE AMATEUR RADIO CLUB SWAPFEST 98

July 11, 1998

(Held every July)

American Legion Park

Shepard Avenue • Oak Creek, WI

(414) 762-3235

Extension 58

P. O. Box 102

South Milwaukee, WI 53172

FOX CITIES HAMFEST

Sunday, November 8, 1998

Starlite Club, Hwy. 55 north of Kaukauna

HAMFEST INFO: Chad Pennings, N9PRC

1912 Russett Ct., Apt. 7 • Appleton WI 54914

(920) 993-0485

EXAM INFO: Larry Siebers, KD9IA • (920) 759-1167

HTTP://W9ZLAMP.ORG

Lakeshore Hamfest

and Computer Swapfest

Manitowoc County Expo

Intersection of Hwys. 42-151 and I-43 on Cty. Hwy. R

Saturday, May 9, 1998

For more information, call:

Glenn, AA9MT: 920-684-7096

Red, N9GHE: 920-684-9097

ManCoRad Radio Club • P.O. Box 204 • Manitowoc, WI 54221-0204

TRI-COUNTY ARC PRESENTS HAMFEST 1998

YOUR SPRING FAVORITE!

Sunday, March 15, 1998

Jefferson County Fairgrounds

TCARC • 213 Frederick Street
Fort Atkinson, WI 53538

414-563-6381

Evenings

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Information: Call, write, or email John Feltz, W9JN

973 E. 1st St., Junction City WI 54443-9614 • (715) 457-2506

E-MAIL: jfw9jn@tzn.net

Eau Claire Amateur Radio Club HAMFEST

Saturday, July 11, 1998

Eau Claire County Exposition Center

Doors Open at 8:00 AM

For Information Contact:

Jim Staatz 715-838-9108 wb9rbp.aol.com

P.O. Box 1867 Eau Claire, WI 54702-1867

http://www.ecarc.org

RACINE AMATEUR RADIO AND COMPUTER SHOW Sunday, July 26, 1998

8 A.M. - 2 P.M.

SOUTH HILLS COUNTRY CLUB I-94

East Frontage Road Between Highway 20 and Highway K

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TABLES \$8.00

Advance Tickets SASE and \$4.00

Send to RMC, P.O. Box 3, Racine, WI 53401

Ozaukee Radio Club 20TH ANNUAL RADIO AND COMPUTER SWAPFEST Saturday, May 2, 1998

8 a.m. to 1 p.m. • Circle B Recreation Center

Intersection of Highway 60 and County I

Exams by Badger Examiners, c/o Gary Sharbuno,

5119 W. Willow Rd., Brown Deer, WI 53222

Swapfest sponsored by the Ozaukee Radio Club

W58 N985 Essex Drive, Cedarburg, WI 53012-1439

Circus City Swapfest

Sponsored by The Yellow Thunder Amateur Radio Club

Saturday August 8, 1998 • 7 a.m. - noon

Sauk County Fairgrounds • Baraboo, WI

Vendors • Concessions
Camping • Free Parking
Tail Gate Area

\$4 - Advanced
\$5 - At Gate
8 Foot Tables - \$5

Steve Schulze, N9UDO
(608) 356-2313/356-4777

Bill Klinkner, N9KXX
(608) 643-6908/643-6453

http://www.thelox.com/~sschulze/hamfest.htm

Red Cedar Repeater Association, Inc.

AUCTION

February 23, 1999 • 7:00 p.m.

American Legion Post 53 • 634 Water Street

Eau Claire, WI

CONTACT:

Steve Hart, KA9OMC
E616 810th Ave.

715-665-2374
Knapp, WI 54749

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